

# TABLE OF CONTENTS

## **AUDIBLE & STROBE APPLIANCES**

### **ELECTRONIC HORNS & STROBE HORNS**

- 1-1 Series NS Horn Strobe & NH Horn Appliances
- 1-2 Series AS Audible Strobe & AH Audible Appliances
- 1-3 Series HS4 Horn Strobe & Series HS Horn Appliances
- 1-4 Series MT Multitone & Multitone Strobe Appliances
- 1-5 Series AMT Multitone & Multitone Strobe Appliances

### **MINI-HORNS**

- 1-6 Series MIZ Horn

### **STROBE APPLIANCES**

- 1-7 Series RSS Strobes & RSSP Single & Multi-Candela Strobes & Strobe Plates

### **CHIMES & CHIME STROBES**

- 1-8 Series CH Electronic Chimes & Chime Strobes

### **BELLS**

- 1-9 Series 43T AC Vibrating Bells
- 1-9 Series MB Motor Bells
- 1-10 Series CVX/CSX Explosion Proof Bells

### **AC HORN**

- 1-10 Series 31T Electronic Horn

### **WEATHERPROOF APPLIANCES**

- 1-11 Series AHWP Audibles, Series ASWP Audible Strobes, Series MTWP Multitone Strobes, Series RSSWP Strobes & Series ET70WP Weatherproof Speaker Strobes

## **SPEAKER & SPEAKER STROBE APPLIANCES**

### **SPEAKERS & SPEAKER STROBES**

- 2-0 Series E50
- 2-1 Series E Low Profile Speakers & Speaker Strobes
- 2-2 Series ET Speakers & Speaker Strobes
- 2-3 Series ET Vandal Resistant Speakers & Speaker Strobes
- 2-4 Series S UL Listed 8" Supervised Speaker & Speaker Strobe

### **CLUSTER SPEAKERS**

- 2-5 Series STH Cluster & Series STH Cluster with MAX Strobe Speakers
- 2-6 Series STH Weatherproof Cluster Speaker
- 2-7 Series STH-MCCH Cluster Speaker with MCCH Strobe

### **SPEAKER HORN**

- 2-8 Series STH-15S Supervised Speaker Horn

### **SELF AMPLIFIED SPEAKERS & SPEAKER STROBES**

- 2-9 Series SA-S Supervised Self-Amplified Speakers & Speaker Strobes

## **SYNC MODULES, POWER SUPPLIES & PULL STATIONS**

### **SYNC MODULES**

- 3-1 Series SM/DSM Sync Modules

### **POWER SUPPLY**

- 3-2 Series PS-12/24-8CP and PS-12/24-8MP **POWERPATH™**

### **MANUAL PULL STATIONS**

- 3-3 Series MPS Manual Pull Stations

# TABLE OF CONTENTS

## FACILITY COMMUNICATIONS/AUDIO EVACUATION

### **SAFEPATH®4 MULTI-FUNCTION FACILITY COMMUNICATIONS SYSTEM**

- 4-1 **SAFEPATH®4** Multi-Function Facility Communication Systems
- 4-3 **SAFEPATH®4** Audio & Audio/Strobe Boosters
- 4-4 **SAFEPATH®4** 2-Zone Class A or 4-Zone Class B Speaker Audio Splitter
- 4-4A **SAFEPATH®4** Addressable Paging Splitter & Telephone Zone Controller
- 4-4B **SAFEPATH®4** Supervised Volume Control
- 4-5 **SAFEPATH®4** Remote Microphone and Remote Microphone Expansion Module
- SAFEPATH®4 SUPERVISED VOICE EVACUATION/AUDIO & PAGING SYSTEM**
- 4-6 **SAFEPATH®** Dual Circuit System
- 4-7 **SAFEPATH®** Multi-Circuit System
- 4-8 **SAFEPATH®** Remote Circuit System
- 4-9 **SAFEPATH®** Remote Microphones
- 4-10 **SAFEPATH®** Modules, Message Kits, & Batteries
- 4-11 **SAFEPATH®** & VoiceLink Messages
- 4-12 VoiceLink
- 4-14 Series NPS Push Stations

*See Tab 2, pages 2-0 to 2-9, for UL Listed 8”  
Speaker & Speaker Strobes, Cluster Speakers,  
Horn Speakers & Self Amplified Speaker &  
Speaker Strobes*

## OSHA/INDUSTRIAL

### **INDUSTRIAL STROBES**

- 5-1 Series MAX Industrial Strobes

### **INDUSTRIAL SIGNALS**

- 5-2 Series MT & MT Multitone Electronic Signals
- 5-3 Series WH Remote Strobes
- 5-3 Series MTH-24 Multitone Horns
- 5-4 Series AMT & AMT Strobe Multitone Electronic Signals
- 5-5 Series 43T & Series MB Motor Bells
- 5-6 Series CVX/CSX Explosion Proof Bells
- 5-6 Series 31T AC Horn

### **INDUSTRIAL SIGNALS**

- 5-7 Series Colored Lens Strobes & Speaker Strobes (Amber, Blue, Green and Red)

## TELEPHONE SIGNALING & COMMERCIAL AUDIO

- 6-1 Series UTA Universal Telephone Alerts
- 6-2 Series PS Telestrobes
- 6-3 Series CH Chimes & Series WR Warble Telephone Alerts
- 6-4 Series CA Common Audible Control Units
- 6-4 Series TB Telbells
- 6-5 Telephone Relays
- 6-6 Power Supplies & Charger
- ZONE CONTROLLER & COMMERCIAL AUDIO**
- 6-7 Series MZC Zone Controller
- 6-8 Series ST Paging Speakers & Horns with Transformer
- 6-9 Self Amplified Paging Horns
- 6-9 Series VC Wall Mount Volume Controls

# TABLE OF CONTENTS

- 6-10** Speaker Mounting Accessories
- 6-10** PRM-150 Line Level
- 6-11** AM/FM Tuner
- 6-11** Microphone

## WIRELESS

- 7-1** Series CCSWH Central Control Station
- 7-2** Series CCSWH-PORTLT Portable Central Control Station
- 7-3** Series RCIWH Wireless Remote Controller
- 7-4** Series HPSS High Power Speaker Stations
- 7-5** Series CUSTWH Wireless Emergency Warning System Software and Engineering Design

## MOUNTING, ACCESSORIES, REFERENCE

### ENCLOSURES

- 8-1** Series EWR, EWP & EN4 Audible Strobe & Strobe Appliance Enclosures

### REFERENCE MATERIAL

- 8-2** Product Dimensions
- 8-5** Covers & Grilles
- 8-6** Agency Approvals
- 8-7** General and Technical Notes
- 8-8** Installation Instructions & Specification Sheets Reference

### Pull Out Mounting Guide

Visit [www.wheelockinc.com](http://www.wheelockinc.com) to obtain:

- Latest Catalog Revisions
- Installation and Specification Sheets
- Software Tools
- Literature
- Application and System Design Assistance
- Technical Support

## Wheelock Fire Alarm Notification Appliance Circuit Products, Stand Alone or Integrated Facility Safety Communication Systems

For over 80 years Wheelock has served the needs of commercial, educational, industrial and government users with the design and manufacture of high quality communication products including fire alarm notification appliances, voice evacuation, voice messaging and security systems.

Wheelock's most popular line of strobes and combination audible and speaker strobes are designed for ADA applications while meeting the latest requirements of NFPA 72 (National Fire Alarm Code), UFC (Uniform Fire Code), ANSI 117.1 (American National Standard for Accessible and Usable Buildings and Facilities), UL Standard 1971 (Signaling Devices for the Hearing Impaired) and UL Standard 1638 for Indoor/Outdoor use, as well as, UL Standard 464 (Audible Signaling Devices) and UL Standard 1480 (Speaker Appliances). These appliances include the field selectable **SPEC1FIRE™** multi-candela appliances, multi-candela high intensity strobes wall and ceiling and weatherproof speaker strobes.



To meet the growing demands for integrated systems to provide protection from new threats that now endanger people all over the world, Wheelock has introduced a new addition to the **SAFEPATH®** family of supervised facility communications systems, **SAFEPATH® 4**.

**SAFEPATH® 4** is the first UL Listed multi-function supervised system to offer Background Music, Messaging, Emergency Voice Evacuation and Paging. This economic solution helps to guide people to safety during fire or other emergencies and warn potential victims of dangerous environmental conditions or security threats.

Wheelock also provides a broad range of educational programs, specification/application assistance, and detailed product information that is available directly from our website at [www.wheelockinc.com](http://www.wheelockinc.com).

**If you are involved in solving SAFETY, SOUND and SECURITY challenges, Wheelock's people and products are ready to help you and the people you protect take appropriate actions.**



# CONTACT INFORMATION



So that we may service you in an efficient manner, we've provided this information as a guide when contacting Wheelock, Inc. for technical support, customer service, sales or other inquiries.

## Corporate Office

273 Branchport Avenue  
Long Branch, NJ 07740  
Phone: (732) 222-6880  
Toll Free: (800) 631-2148  
Fax: (732) 222-2588

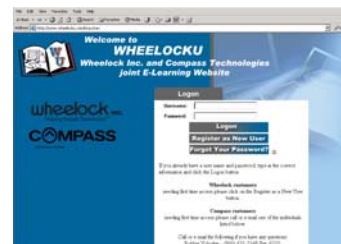


## Company Website

[www.wheelockinc.com](http://www.wheelockinc.com)

## E-Learning On-Line Training Website

[www.wheelocku.com](http://www.wheelocku.com)



**Customer Service:** (800) 631-2148, Option #2

**Technical Support:** (800) 631-2148, Option #3

**Inside Sales/Marketing Support:** (800) 631-2148, Option #4

**Training:** (800) 631-2148, Ext. 6015

**Applications Engineering:** (800) 631-2148, Ext. 6024 or 6206

**Literature Request:** (800) 631-2148, Option #7



## Series NS Horn Strobes & Series NH Horn Appliances

### Description:

Series NS Horn Strobes & Series NH Horn Appliances are ideal for wall mount designs that require 2 wire installation and 2 selectable dBA settings (90 & 95).

### Strobe Options:

Single Candela **Wall:** 1575 cd

Multi Candela Field Selectable **Wall:** 15/30/75/110 cd

### Features:

- Selectable Continuous Horn or Temporal (Code 3)
- 2 Selectable dBA settings of 90 and 95 dBA in both tones
- Patented Universal Mounting Plate
- Wall mount
- Synchronize strobe and audible with Wheelock SM, DSM Sync Modules or PS-12/24-8CP and PS-12/24-8MP Power Supplies with built-in sync protocol



**Series NS**



**Series NH**

### Specification and Ordering Information

Model Number	Order Code	Strobe Candela	24 VDC	12 VDC	2 WIRE	Model Color Red	Model Color White	Mounting Options#	Agency Approvals				
									UL	MEA	CSFM	FM	BFP
NS-24MCW-FR	9404	15/30/75/110	X	-	X	X	-	B,D,E,F,G,H,J,N,O,P,R,X	X	X	X	X	X
NS-24MCW-FW	9405	15/30/75/110	X	-	X	-	X	B,D,E,F,G,H,J,N,O,P,R,X	X	X	X	X	X
NS-241575W-FR	7806	15 (75 on Axis)	X	-	X	X	-	B,D,E,F,G,H,J,N,O,P,R,X	X	X	X	X	X
NS-241575W-FW	7811	15 (75 on Axis)	X	-	X	-	X	B,D,E,F,G,H,J,N,O,P,R,X	X	X	X	X	X
NS-121575W-FR	7816	15 (75 on Axis)	-	X	X	X	-	B,D,E,F,G,H,J,N,O,P,R,X	X	X	X	X	X
NS-121575W-FW	7818	15 (75 on Axis)	-	X	X	-	X	B,D,E,F,G,H,J,N,O,P,R,X	X	X	X	X	X
NH-12/24-R	7449	-	X	X	X	X	-	B,D,E,F,G,H,J,N,O,P,R,X	X	X	X	X	X
NH-12/24-W	7500	-	X	X	X	-	X	B,D,E,F,G,H,J,N,O,P,R,X	X	X	X	X	X

#See mounting options pull out guide in the last section of this binder.  
X = Approved

### Average RMS Current

Series NS/NH 24 VDC		Audible	Wall Mount Horn Strobe Models				
		NH-12/24	NS-241575W	NS-24MCW			
		@24VDC	15/75cd	15cd	30cd	75cd	110cd
High (95) dBA	24VDC	0.035	0.082	0.061	0.085	0.129	0.167
	UL max*	0.044	0.104	0.074	0.107	0.184	0.244
Low (90) dBA	24VDC	0.014	0.067	0.049	0.072	0.117	0.154
	UL max*	0.018	0.096	0.066	0.101	0.177	0.232
Series NS/NH 12VDC		Audible	Wall Mount				
		NH-12/24	Aud/Strobe				
		@12V	NS-121575W				
High (89) dBA	12 VDC	0.016	0.160				
	UL max*	0.021	0.262				
Low (84) dBA	12VDC	0.010	0.155				
	UL max*	0.012	0.257				

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.



**Description:**

Series AS Audible Strobe & Series AH Audible Appliances are ideal for 2 wire applications with 3 selectable dBA settings (90, 95, 99) and wall or ceiling mounting.

**Strobe Options:**

Single Candela **Wall:** 1575 cd

Multi Candela Field Selectable **Wall:** 15/30/75/110 cd or 135/185 cd

**Ceiling:** 15/30/75/95 cd or 115/177 cd

**Features:**

- Selectable Continuous Horn or Temporal (Code 3)
- 3 Selectable dBA settings of 90, 95 and 99 dBA in both tones
- Patented Universal Mounting Plate
- Wall and ceiling mount
- Synchronize strobe and audible with Wheelock SM, DSM Sync Modules or PS-12/24-8CP and PS-12/24-8MP Power Supplies with built-in sync protocol



**Series AH**



**Series AS**

**Specification and Ordering Information**

Model Number	Order Code	Strobe Candela	24 VDC	12 VDC	Wall Mount	Ceiling Mount	Model Color Red	Model Color White	Mounting Options#	Agency Approvals				
										UL	MEA	CSFM	FM	BFP
AS-24MCW-FR	9024	15/30/75/110	X	-	X	-	X	-	B,D,E,F,G,H,J,N,O,R,X	X	X	X	X	X
AS-24MCW-FW	9025	15/30/75/110	X	-	X	-	-	X	B,D,E,F,G,H,J,N,O,R,X	X	X	X	X	X
AS-24MCWH-FR	3468	135/185	X	-	X	-	X	-	B,D,E,F,G,H,J,N,O,R,X	X	*	X	*	*
AS-24MCWH-FW	3469	135/185	X	-	X	-	-	X	B,D,E,F,G,H,J,N,O,R,X	X	*	X	*	*
AS-241575W-FR	7405	15 (75 on Axis)	X	-	X	-	X	-	B,D,E,F,G,H,J,N,O,R,X	X		X	X	X
AS-121575W-FR	7410	15 (75 on Axis)	-	X	X	-	X	-	B,D,E,F,G,H,J,N,O,R,X	X		X	X	X
AS-24MCC-FR	3161	15/30/75/95	X	-	-	X	X	-	B,D,E,F,G,H,J,N,O,R,X	X	X	X	*	*
AS-24MCC-FW	3162	15/30/75/95	X	-	-	X	-	X	B,D,E,F,G,H,J,N,O,R,X	X	X	X	*	*
AS-24MCCH-FR	3466	115/177	X	-	-	X	X	-	B,D,E,F,G,H,J,N,O,R,X	X	*	X	*	*
AS-24MCCH-FW	3467	115/177	X	-	-	X	-	X	B,D,E,F,G,H,J,N,O,R,X	X	*	X	*	*
ASWP-2475W-FR	9012	180 @ 77°F 75 @ -31°F	X	-	X	-	X	-	I (Outdoor)	X	X	X	X	X
AH-24-R	7892	-	X	-	X	X	X	-	B,D,E,F,G,H,J,N,O,R,X	X	X	X	X	X
AH-24-W	7893	-	X	-	X	X	-	X	B,D,E,F,G,H,J,N,O,R,X	X	X	X	X	X
AH-12-R	7891	-	-	X	X	X	X	-	B,D,E,F,G,H,J,N,O,R,X	X	X	X	X	X
AH-12-W	7894	-	-	X	X	X	-	X	B,D,E,F,G,H,J,N,O,R,X	X	X	X	X	X
AH-24WP-R	7416	-	X	-	X	X	X	-	K (Outdoor)	X	X	X	*	X
AH-12WP-R	7415	-	-	X	X	X	X	-	K (Outdoor)	X	X	X	*	X

#See mounting options pull out guide in the last section of this binder.

X = Approved  
\* = Pending

**Average RMS Current**

		Audible		Wall Mount Audible Strobe Models							Ceiling Mount Audible Strobe Models					
		AH-24	AS-241575W	AS-24MCW				AS-24MCWH		ASWP-2475W**	AS-24MCC				AS-24MCCH	
24 VDC Models			1575cd	15cd	30cd	75cd	110cd	135cd	185cd		15cd	30cd	75cd	95cd	115cd	177cd
High (99) dBA	24 vdc	0.062	0.100	0.080	0.102	0.150	0.194	0.250	0.320	0.128	0.088	0.114	0.165	0.205	0.250	0.320
	UL max*	0.080	0.121	0.088	0.125	0.200	0.267	0.355	0.480	0.168	0.095	0.138	0.221	0.285	0.355	0.480
Med (95) dBA	24 vdc	0.033	0.080	0.060	0.084	0.132	0.173	0.230	0.305	0.105	0.066	0.092	0.145	0.186	0.230	0.305
	UL max*	0.043	0.107	0.074	0.110	0.190	0.253	0.340	0.465	0.155	0.080	0.122	0.201	0.269	0.340	0.465
Low (90) dBA	24 vdc	0.017	0.072	0.052	0.076	0.121	0.158	0.220	0.295	0.098	0.056	0.082	0.132	0.173	0.220	0.295
	UL max*	0.021	0.100	0.068	0.105	0.182	0.245	0.335	0.460	0.150	0.074	0.113	0.198	0.263	0.335	0.460
12 VDC Models		Audible AH-12			Wall Mount Audible Strobe AS-121575W											
		High (99) dBA	Med (95) dBA	Low (90) dBA	High (99) dBA	Med (95) dBA	Low (90) dBA									
	12 vdc	0.163	0.076	0.039	0.260	0.195	0.175									
	UL max*	0.192	0.108	0.058	0.320	0.275	0.265									

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

\*\*Audible and Visual Combined.

**Description:**

Series HS4 Horn Strobe and the Series HS Horn appliances are the choice for 4 wire horn strobe applications with 3 selectable dBA settings (90, 95, 99). They satisfy virtually all requirements for indoor, wall mount applications.

**Strobe Options:**

Single Candela **Wall:** 1575 cd

Multi Candela Field Selectable **Wall:** 15/30/75/110 cd  
135/185 cd

**Features:**

- Selectable Continuous Horn or Temporal (Code 3)
- 3 Selectable dBA settings of 90, 95 and 99 dBA in both tones
- 4-Wire Horn Strobe Appliance allows for separate operation of the horn and strobe circuits
- Wall mount
- Synchronize strobe and audible with Wheelock SM, DSM Sync Modules or PS-12/24-8CP and PS-12/24-8MP Power Supplies with built-in sync protocol



**Series HS4**



**Series HS**

**Specification and Ordering Information**

Model Number	Order Code	Strobe Candela	24 VDC	2 WIRE	4 WIRE	Model Color Red	Model Color White	Mounting Options#	Agency Approvals				
									UL	MEA	CSFM	FM	BFP
HS4-24MCW-FR	3150	15/30/75/110	X	X	X	X	-	D,E,F,L,M,O,P,R	X	X	X	X	*
HS4-24MCW-FW	3151	15/30/75/110	X	X	X	-	X	D,E,F,L,M,O,P,R	X	X	X	X	*
HS4-241575W-FR	3176	15 (75 on Axis)	X	X	X	X	-	D,E,F,L,M,O,P,R	X	X	X	X	*
HS4-241575W-FW	3177	15 (75 on Axis)	X	X	X	X	-	D,E,F,L,M,O,P,R	X	X	X	X	*
HS4-24MCWH-FR	3132	135/185	X	X	X	X	-	D,E,F,L,M,O,P,R	X	X	X	*	*
HS4-24MCWH-FW	3148	135/185	X	X	X	-	X	D,E,F,L,M,O,P,R	X	X	X	*	*
HS-24-R	3152	-	X	X		X	-	D,E,F,L,M,O,P,R	X	X	X	X	*
HS-24-W	3153	-	X	X		-	X	D,E,F,L,M,O,P,R	X	X	X	X	*

#See mounting options pull out guide in the last section of this binder.

X = Approved

\* = Pending

**Average RMS Current**

HS/HS4 Series	Audible Current			Strobe Current						
	HS and HS4			HS4-241575W	HS4-24MCW				HS4-24MCWH	
	High (99) dBA	Med (95) dBA	Low (90) dBA	1575cd	15cd	30cd	75cd	110cd	135cd	185cd
<b>24 vdc</b>	<b>0.098</b>	<b>0.052</b>	<b>0.024</b>	<b>0.060</b>	<b>0.041</b>	<b>0.063</b>	<b>0.109</b>	<b>0.140</b>	<b>0.195</b>	<b>0.270</b>
UL max*	0.110	0.068	0.027	0.090	0.060	0.092	0.165	0.220	0.300	0.420

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.



## Description:

Series MT & MT Strobe Multitone Electronic Appliances are ideal for designs that require a choice of 8 selectable alerting sounds for various ambient and wall conditions and 2 selectable sound output levels.

## Strobe Options:

Single Candela: 1575 cd (MT)  
Outdoor (UL 1638): 180 cd (MTWP)  
115 VAC (UL 1638): 15 cd (MT4)

## Features:

- Choice of eight (8) alerting sounds: Horn, Bell, March Time Horn, Code-3 Tone, Code-3 Horn, Slow Whoop, Siren, or Hi/Lo
- Audible and strobe can operate from a single NAC circuit with any of the eight audible sounds
- MT and MTWP Strobes can be Synchronized with Wheelock SM, DSM Sync Modules or PS-12/24-8CP and PS-12/24-8MP Power Supplies with built-in sync protocol



**Series MT**



**Series MT  
without strobe**

## Specification and Ordering Information

Model Number	Order Code	Input Voltage	Rated Candela	Mounting Options#	Agency Approvals				
					UL	MEA	CSFM	FM	BFP
MT-12/24-R	5023	12/24	-	D,E,F,L,M,O,P,R	X	X	X	X	X
MT-12/24-W	5024	12/24	-	D,E,F,L,M,O,P,R	X	X	X	X	X
MT-241575W-FR	8422	24	15 (75 on AXIS)	D,E,F,L,M,O,P,R	X	X	X	X	*
MT-241575W-FW	9460	24	15 (75 on AXIS)	D,E,F,L,M,O,P,R	X	X	X	X	*
MT-24MCW-FR	3301	24	15/30/75/110	D,E,F,L,M,O,P,R	X	*	X	*	*
MT-24MCW-FW	3303	24	15/30/75/110	D,E,F,L,M,O,P,R	X	*	X	*	*
MT-121575W-FR	8421	12	15 (75 on AXIS)	D,E,F,L,M,O,P,R	X	X	X	X	*
MT-121575W-NW	9747	12	15 (75 on AXIS)	D,E,F,L,M,O,P,R	X	X	X	X	*
MTWP-2475W-FR	8420	24	180 @ 77°F 75 @ -31°F	M (Outdoor)	X	X	X	X	*
MTWP-2475W-NW	9744	24	180 @ 77°F 75 @ -31°F	M (Outdoor)	X	X	X	X	*
MT4-115-R	6223	115VAC	-	D, E, J, K, N, O, R	X	X	X	X	X
MT4-115-S	6142	115VAC	-	D, E, J, K, N, O, R	X	X	X	X	X
MT4-115-WH-VFR	6224	115 VAC	15	D, E, J, K, N, O, R	X	X	X	X	X
MT4-12/24-R	5308	12/24	-	D, E, J, K, N, O, R	X	*	*	*	*
MT4-12/24-S	7997	12/24	-	D, E, J, K, N, O, R	X	*	*	*	*

#See mounting options pull out guide in the last section of this binder.

X = Approved

\* = Pending

## dBA and Current Ratings for Multitone Audible Portion

	RMS Current (amps)										dBA @ 10ft (UL Reverberant)				dBA @ 10ft (anechoic)		dBA @ 10ft (UL Reverberant)	
	24 VDC				12 VDC				120 VAC		24 VDC		12 VDC		12 and 24 VDC		120 VAC	
	HI Output		STD Output		HI Output		STD Output		HI Output	STD Output	HI Output	STD Output	HI Output	STD Output	HI Output	STD Output	HI Output	STD Output
	@ 24 VDC	UL max*	@ 24 VDC	UL max*	@ 12 VDC	UL max*	@ 12 VDC	UL max*	UL max*	UL max*	HI Output	STD Output	HI Output	STD Output	HI Output	STD Output	HI Output	STD Output
Horn	0.074	0.108	0.033	0.044	0.145	0.176	0.023	0.034	0.050	0.042	92	87	90	77	99	93	88	82
Bell	0.040	0.053	0.018	0.024	0.077	0.095	0.014	0.020	0.041	0.039	86	80	85	69	92	87	82	75
March Time Horn	0.067	0.104	0.033	0.038	0.109	0.142	0.023	0.034	0.050	0.040	89	84	89	74	99	93	85	79
Code-3 Horn	0.069	0.091	0.026	0.035	0.100	0.142	0.023	0.034	0.050	0.042	88	83	88	73	99	93	85	75
Code-3 Tone	0.061	0.075	0.026	0.035	0.088	0.105	0.015	0.021	0.042	0.040	85	80	84	70	95	90	79	75
Slow Whoop	0.069	0.098	0.028	0.037	0.100	0.142	0.025	0.035	0.050	0.042	90	89	89	75	99	94	88	82
Siren	0.080	0.104	0.027	0.036	0.122	0.152	0.021	0.030	0.045	0.041	89	84	89	75	98	93	85	82
HI/LO	0.044	0.057	0.020	0.026	0.089	0.114	0.018	0.026	0.042	0.039	86	81	86	71	93	88	82	79

## Strobe Current Ratings (AMPS)

Model	MT-121575	MT-241575	MTWP-2475	MT-24MCW			
Candela	1575cd	1575cd	180cd	15cd	30cd	75cd	110cd
@24VDC	0.152	0.060	0.094	0.041	0.063	0.109	0.140
UL max*	0.255	0.090	0.138	0.060	0.092	0.165	0.220

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

06/05

## Series AMT & AMT Strobe Multitone Input Electronic Appliances

### Description:

Series AMT & AMT Strobe Multitone Input Electronic Appliances are designed for applications that require up to three distinct prioritized audible signals from 3 isolated inputs. They are ideal for combination fire and burglary systems and suppression systems.

### Strobe Options:

Single Candela **Wall:** 1575 cd  
75 cd

### Features:

- Choice of eight (8) self-prioritized sound combinations
- Three electrically isolated audible signal inputs
- Each AMT Audible and AMT Strobe appliance has two selectable sound output levels: Up to 98 dBA at 10 feet on the high setting and up to 93 dBA on the standard setting
- AMT with strobe can flash independently or in unison with all audible signals
- AMT Strobes can be Synchronized with Wheelock SM, DSM Sync Modules or PS-12/24-8CP and PS-12/24-8MP Power Supplies with built-in sync protocol



**Series AMT**



**Series AMT without strobe**

### Specification and Ordering Information

Model Number	Order Code	Input Voltage	Rated Candela	Mounting Options#	Agency Approvals				
					UL	MEA	CSFM	FM	BFP
AMT-12/24-R	5887	12/24	-	D,E,F,L,M,N,O,P,R	X	X	X	X	X
AMT-12/24-W	5893	12/24	-	D,E,F,L,M,N,O,P,R	X	X	X	X	X
AMT-241575W-FR	9463	24	15 (75 on axis)	D,E,F,L,M,N,O,P,R	X	X	X	X	*
AMT-241575W-FW	9466	24	15 (75 on axis)	D,E,F,L,M,N,O,P,R	X	X	X	X	*
AMT-241575W-NW	3047	24	15 (75 on axis)	D,E,F,L,M,N,O,P,R	X	X	X	X	*
AMT-24MCW-FR	3300	24	15/30/75/110	D,E,F,L,M,N,O,P,R	X	*	X	*	*
AMT-24MCW-FW	3302	24	15/30/75/110	D,E,F,L,M,N,O,P,R	X	*	X	*	*
AMT-12/24-R-NYC	7920	12/24	-	D,E,F,L,M,N,O,P,R	X	X			
AMT-241575W-FR-NYC	9465	24	15 (75 on axis)	D,E,F,L,M,N,O,P,R	X	X			

#See mounting options pull out guide in the last section of this binder.

X = Approved  
\* = Pending

NYC indicates tones for New York City.

### Current Ratings for AMT Multitone Audible Signals

Tone	RMS Current (amps)							
	24 vdc				12 vdc			
	HI Output		STD Output		HI Output		STD Output	
	@ 24 VDC	UL max*	@ 24 VDC	UL max*	@ 12 VDC	UL max*	@ 12 VDC	UL max*
Horn	0.085	0.108	0.034	0.043	0.100	0.210	0.020	0.058
Bell	0.042	0.057	0.020	0.026	0.031	0.117	0.010	0.031
March Time Horn	0.085	0.108	0.026	0.035	0.100	0.210	0.020	0.059
Code-3 Horn	0.085	0.108	0.034	0.043	0.100	0.210	0.020	0.057
Code-3 Tone	0.048	0.060	0.022	0.030	0.060	0.168	0.015	0.052
Slow Whoop	0.087	0.112	0.034	0.044	0.100	0.182	0.025	0.056
Siren	0.081	0.102	0.028	0.038	0.082	0.177	0.020	0.055
HI/LO	0.047	0.064	0.023	0.030	0.044	0.131	0.013	0.028
Vibrating Chime	0.032	0.041	0.015	0.020	0.027	0.090	0.010	0.028

### Average RMS Current

Model	RMS Current (amps)				
	AMT-121575	AMT-24MCW			
Candela	1575cd	15cd	30cd	75cd	110cd
@24VDC	0.064	0.041	0.063	0.109	0.140
UL max*	0.101	0.060	0.092	0.165	0.220

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

## Description:

Wheelock Series MIZ Piezoelectric Mini Horns offer high sound output along with low current draw and are ideal for alarm signaling in individual rooms, apartments, hotels, motels, and offices. Field selectable continuous or code 3 output with sync capability.

## Features:

- Continuous or Code 3 output
- Synchronize with Wheelock's SM, DSM Sync Modules or PS-12/24-8CP and PS-12/24-8MP Power Supplies with built-in sync protocol
- Mount to single-gang boxes



Series MIZ

## Specification and Ordering Information

Model Number	Order Code	Description	Mounting Options#	Agency Approvals				
				UL	MEA	CSFM	FM	BFP
MIZ-24S-R	8485	24 Volt, Red	B	X	X	X	X	*
MIZ-24S-W	8484	24 Volt, White	B	X	X	X	X	*

#See mounting options pull out guide in the last section of this binder.

X = Approved

\* = Pending

## UL Listed Models and Ratings

Model	Regulated UL Voltage	Average RMS Current* (AMPS)	Reverberant dBA Per UL 464 @ 10 ft		Anechoic dBA @ 10 ft		Mounting Options
			Continuous	Code 3	Continuous	Code 3	
			dBA	dBA	dBA	dBA	
MIZ-24S	24 VDC	0.025	83.2	78.8	87.9	87.9	B
	UL max*	0.026	85.8	81.3	90.6	89.7	B

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

### Description:

Wheelock Series RSS Strobes provide a wide range of intensities and mounting options for wall or ceiling applications.

Series RSSP Single & Multi-Candela Strobe Plates are designed for retrofitting existing audible notification appliances to strobe applications.

### Strobe Options:

Single Candela: 1575 cd (wall), 75 cd (weatherproof)

Multi Candela Field Selectable **Wall:** 15/30/75/110 cd or 135/185 cd

**Ceiling:** 15/30/75/95 cd or 115/177 cd

### Features:

- Patented Universal Mounting Plate
- Low current draw to reduce power consumption and wiring costs
- Strobes produce 1 flash per second over the regulated voltage range
- Synchronize with Wheelock's SM, DSM Sync Modules or PS-12/24-8CP and PS-12/24-8MP Power Supplies with built-in sync protocol



**Series RSS**

**Series RSSP**

### Specification and Ordering Information

Model Number	Order Code	Wall Mount	Ceiling Mount	Strobe Candela	24 VDC	12 VDC	Model Color Red	Model Color White	Mounting Options#	Square or Round	Agency Approvals				
											UL	MEA	CSFM	FM	BFP
RSS-24MCW-FR	9400	X	-	15/30/75/110	X	-	X	-	B,D,E,F,G,H,J,N,O,P,R,X	Square	X	X	X	X	X
RSS-24MCW-FW	9401	X	-	15/30/75/110	X	-	-	X	B,D,E,F,G,H,J,N,O,P,R,X	Square	X	X	X	X	X
RSS-241575W-FR	7471	X	-	15 (75 on Axis)	X	-	X	-	B,D,E,F,G,H,J,N,O,P,R,X	Square	X	X	X	X	X
RSS-241575W-FW	7788	X	-	15 (75 on Axis)	X	-	-	X	B,D,E,F,G,H,J,N,O,P,R,X	Square	X	X	X	X	X
RSS-121575W-FR	7476	X	-	15 (75 on Axis)	-	X	X	-	B,D,E,F,G,H,J,N,O,P,R,X	Square	X	X	X	X	X
RSS-121575W-FW	7468	X	-	15 (75 on Axis)	-	X	-	X	B,D,E,F,G,H,J,N,O,P,R,X	Square	X	X	X	X	X
RSS-24MCC-FW	3158	-	X	15/30/75/95	X	-	-	X	B,D,E,F,G,H,J,N,O,P,R,X	Square	X	X	X	X	*
RSS-24MCCR-FW	3160	-	X	15/30/75/95	X	-	-	X	B,D,E,F,G,H,J,N,O,P,R,X	Round	X	X	X	X	*
RSS-24MCCH-FW	3461	-	X	115/177	X	-	-	X	B,D,E,F,G,H,J,N,O,P,R,X	Square	X	X	X	X	*
RSS-24MCCHR-FW	3463	-	X	115/177	X	-	-	X	B,D,E,F,G,H,J,N,O,P,R,X	Round	X	X	X	X	*
RSS-24MCWH-FR	3465	X		135/185	X		X		B,D,E,F,G,H,J,N,O,P,R,X	Square	X	X	X	X	*
RSSWP-2475W-FR	9013	X	-	180 @ 77°F 75 @ -31°F	X	-	X	-	B,D,E,F,G,H,J,N,O,P,R,X	Square	X	X	X	X	*
RSSWP-2475W-FW	3034	X	-	180 @ 77°F 75 @ -31°F	X	-	-	X	T (Outdoor)	Square	X	X	X	X	*
RSSP-121575W-FR	7798	X	-	15 (75 on Axis)	-	X	X	-	E,Z	Square	X	X	X	X	X
RSSP-24MCW-FR	9402	X	-	15/30/75/110	X	-	X	-	E,Z	Square	X	X	X	X	X
RSSP-241575W-FR	7793	X	-	15 (75 on Axis)	-	-	X	-	E,Z	Square	X	X	X	X	X
RSSP-24MCWH-FR	9482	X		135/185	X		X		B,D,E,F,G,H,J,N,O,P,R,X	Square	X	X	X	*	*

#See mounting options pull out guide in the last section of this binder.

X = Approved \* = Pending

### Average RMS Current

RSS/RSSP 24VDC Models	RSS/RSSP - Wall Mount							RSS - Ceiling Mount						
	241575W	24MCW				24MCWH		24MCC				24MCCH		
	1575cd	15cd	30cd	75cd	110cd	135cd	185cd	15cd	30cd	75cd	95cd	115cd	177cd	
24 vdc	0.060	0.041	0.063	0.109	0.140	0.195	0.270	0.045	0.070	0.119	0.159	0.195	0.270	
UL max*	0.090	0.060	0.092	0.165	0.220	0.300	0.420	0.065	0.105	0.189	0.249	0.300	0.420	
RSS/RSSP 24VDC Models	RSS/RSSP Wall Mount	* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.												
	121575W													
	12 vdc													0.152
	UL max*													0.255

**Description:**

Wheelock Series CH Chimes & Chime Strobes are ideal for hospital and institutional applications. The appliances feature single stroke or vibrating operation.

**Strobe Options:**

Single Candela **Wall:** 1575 cd

Multi Candela Field Selectable **Wall:** 15/30/75/110 cd  
135/185 cd

**Ceiling:** 15/30/75/95 cd  
115/177 cd

**Features:**

- Anechoic sound level adjustable up to 83dB
- Tone adjustable from 800 to 1200 Hz
- Adjustable volume and tone control
- CH Strobes may be Synchronized with Wheelock's SM, DSM Sync Modules or PS-12/24-8CP and PS-12/24-8MP Power Supplies with built-in sync protocol



**Series CH70  
Chime Strobe**



**Series CH90  
Chime**

**Specification and Ordering Information**

Model Number	Model Code	Wall Mount	Ceiling Mount	Strobe Candela	24 VDC	Model Color Red	Model Color White	Mounting Options#	Agency Approvals			
									UL	MEA	CSFM	BFP
CH70-24MCW-FR	9018	X		15/30/75/110	X	X	-	L,O,P,Q,R,U,Y	X	X	X	X
CH70-24MCW-FW	9019	X	-	15/30/75/110	X	-	X	L,O,P,Q,R,U,Y	X	X	X	X
CH70-24MCWH-FR	9083	X	-	135/185	X	X	-	L,O,P,Q,R,U,Y	X	X	X	*
CH70-24MCWH-FW	9084	X	-	135/185	X	-	X	L,O,P,Q,R,U,Y	X	X	X	*
CH70-241575W-FR	7830	X	-	15 (75 on Axis)	X	X	-	L,O,P,Q,R,U,Y	X	X	X	X
CH90-24MCC-FR	3167	-	X	15/30/75/95	X	X	-	Q,U,V	X	X	X	*
CH90-24MCC-FW	3168	-	X	15/30/75/95	X	-	X	Q,U,V	X	X	X	*
CH90-24MCCH-FW	3110	-	X	115/177	X	-	X	Q,U,V	X	X	X	*
CH70-24-R	7825	X	X	-	X	X	-	L,O,P,Q,R,U,Y	X	X	X	X
CH70-24-W	7827	X	X	-	X	-	X	L,O,P,Q,R,U,Y	X	X	X	X
CH90-24-W	7826	X	X	-	X	-	X	Q,U,V	X	X	X	X

#See mounting options pull out guide in the last section of this binder.  
X = Approved \* = Pending

**Average RMS Current**

CH70/CH90 Chimes	Chime current	CH70 Strobe current - Wall Mount							CH90 Strobe current - Ceiling Mount					
		241575W	24MCW				24MCWH		24MCC				24MCCH	
		1575cd	15cd	30cd	75cd	110cd	135cd	185cd	15cd	30cd	75cd	95cd	115cd	177cd
24 vdc	0.022	0.060	0.041	0.063	0.109	0.140	0.195	0.270	0.045	0.070	0.119	0.159	0.195	0.270
UL max*	0.022	0.090	0.060	0.092	0.165	0.220	0.300	0.420	0.065	0.105	0.189	0.249	0.300	0.420

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

## Series MB Motor Bells

### Description:

Wheelock Series MB Motor Bells provide a better engineering motor bell for fire and life safety alarm systems.

### Features:

- Available in 6" and 10" sizes in 12 or 24 VDC models.
- For combined audible (bell) and visual signaling, convenient retrofit assemblies (Series RSSP) are available with multi-candela or 1575 cd strobes
- Built-in trimplate make semi-flush mounting simpler and less expensive



Series MB

### Specification and Ordering Information

Model Number	Order Code	Shell Size	Input Voltage (VDC)	Average RMS Current	UL Max*	dBA @ 10ft.	Mounting Options#	Agency Approvals				
								UL	MEA	CSFM	FM	BFP
MB-G6-12-R	3942	6"	12	0.060	0.090	92	D,E,J,K,N,O,P,R,S	X	X	X	X	X
MB-G6-12-S	4221	6"	12	0.060	0.090	92	D,E,J,K,N,O,P,R,S	X	X	X	X	X
MB-G6-24-R	3941	6"	24	0.030	0.040	92	D,E,J,K,N,O,P,R,S	X	X	X	X	X
MB-G6-24-S	4222	6"	24	0.030	0.040	92	D,E,J,K,N,O,P,R,S	X	X	X	X	X
MB-G10-12-R	3944	10"	12	0.060	0.090	92	D,E,J,K,N,O,P,R,S	X	X	X	X	X
MB-G10-12-S	4223	10"	12	0.060	0.090	92	D,E,J,K,N,O,P,R,S	X	X	X	X	X
MB-G10-24-R	3943	10"	24	0.030	0.040	92	D,E,J,K,N,O,P,R,S	X	X	X	X	X
MB-G10-24-S	4224	10"	24	0.030	0.040	92	D,E,J,K,N,O,P,R,S	X	X	X	X	X

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

#See mounting options pull out guide in the last section of this binder.  
X = Approved

## Series 43T AC Vibrating Bells

### Description:

Wheelock Series 43T AC Vibrating Bells provide durable operation and dependable performance for indoor and outdoor installations.

### Features:

- Available in 6" and 10" sizes
- 115 or 24 VAC operation



Series 43T

### Specification and Ordering Information

Model Number	Order Code	Shell Size	Input Voltage	Input Current	dBA @ 10 Ft.	Mounting Options#	Agency Approvals				
							UL	MEA	CSFM	FM	BFP
43T-G6-24-R	1627	6"	24 VAC	0.410	86	D,E,J,K,N,O,P,R,S	X	X	X	X	X
43T-G6-24-S	1626	6"	24 VAC	0.410	86	D,E,J,K,N,O,P,R,S	X	X	X	X	X
43T-G6-115-R	1631	6"	115 VAC	0.085	86	D,E,J,K,N,O,P,R,S	X	X	X	X	X
43T-G6-115-S	1630	6"	115 VAC	0.085	86	D,E,J,K,N,O,P,R,S	X	X	X	X	X
43T-G10-24-R	1647	10"	24 VAC	0.410	88	D,E,J,K,N,O,P,R,S	X	X	X	X	X
43T-G10-24-S	3800	10"	24 VAC	0.410	88	D,E,J,K,N,O,P,R,S	X	X	X	X	X
43T-G10-115-R	1651	10"	115 VAC	0.085	88	D,E,J,K,N,O,P,R,S	X	X	X	X	X
43T-G10-115-S	3693	10"	115 VAC	0.085	88	D,E,J,K,N,O,P,R,S	X	X	X	X	X

#See mounting options pull out guide in the last section of this binder.  
X = Approved



## Series 31T 115 VAC Horn

### Description:

Wheelock Series 31T 115 VAC Horn is a high performance horn ideal for the life safety applications where high sound output, low current draw, and dependable operation are of critical concern.

### Features:

- Offers rugged, vandal resistant construction with die cast metal housings for the horn and mechanism



**Series 31T**

### Specification and Ordering Information

Model Number	Order Code	Input Voltage	Rated Current	Rated dBA @ 10 Feet	Mounting Options#	Agency Approvals				
						UL	MEA	CSFM	FM	BFP
31T-115-R	2805	115 VAC	0.160	95	D,E,J,K,N,O,R	X	X	X	X	X
31T-115-S	0521	115 VAC	0.160	95	D,E,J,K,N,O,R	X	X	X	X	X

#See mounting options pull out guide in the last section of this binder.

X = Approved

\* = Pending

Class	Group	Contents of Hazardous Atmosphere
I	B	Hydrogen, or gases and vapors of equivalent hazards such as manufactured gas
I	C	Ethyl and ether vapors
I	D	Gasoline, petroleum, naphtha, alcohol, acetone, benzene, lacquer solvent, vapors, natural gas
II	F	Carbon black, coal, coke dust
II	G	Flour, starch, grain dusts

### Description:

Wheelock Series CVX/CSX Explosion Proof Bells are listed for service in Division One applications, which means they are designed to operate safely in atmospheres that actually contain the explosive elements in free form

### Features:

- Available in 24 VDC and 115 VAC models
- Available in single stroke and vibrating models
- High sound output with large 10" bell shell
- Approvals: Underwriter's Laboratories (UL), New York City (MEA), California State Fire Marshal (CSFM)

### Specification and Ordering Information

Vibrating								
Indoor Model Number	Order Code	Outdoor Model Number	Order Code	Shell Size	Input Volt.	Input Current	dBA @ 10 Ft.	Mounting
CVX10-115-R	3742	CVXG10-115-R	4930	10"	115VAC	.220	90	Note 1
CVX10-115-S	0132	CVXG10-115-S	0134	10"	115VAC	.220	90	Note 1
Single Stroke								
Indoor Model Number	Order Code	Outdoor Model Number	Order Code	Shell Size	Input Volt.	Input Current	dBA @ 10 Ft.	Mounting
CSX10-115-R	4715	CSXG10-115-R	4929	10"	115VAC	0.125	87	Note 1
CSX10-115-S	0166	CSXG10-115-S	0167	10"	115VAC	0.125	87	Note 1
CSX10-24-R	3582	CSXG10-24-R	3402	10"	24VDC	0.500	87	Note 1
CSX10-24-S	0164	CSXG10-24-S	0196	10"	24VDC	0.500	87	Note 1

#### NOTE:

1. All models include integral cast backbox for surface mounting with 1/2" threaded conduit entrances on top and bottom of housing.

## Series CVX/CSX Explosion Proof Bells



**Series CVX10, CSX10  
(Indoor Model)**



**Series CVXG10, CSXG10  
(Outdoor Model)**

### Description:

Wheelock has the broadest UL Listed weatherproof product line in the industry for wall and ceiling mount with an extended temperature range of -31°F to 150°F (-35°C to 66°C) per UL 1638.

### Features:

- Synchronize with Wheelock's SM, DSM sync modules or PS-12/24-8CP and PS-12/24-8MP Power Supplies with built-in sync protocol (Not MT-12/24 or audible portion of MTWP)
- Strobe models are rated 180 cd @ 77°F



### Specification and Ordering Information

Model Number	Order Code	Strobe cd @ 77°F (25°C)	Strobe cd @ -31°F (-35°C)	dBA	Input Voltage	Outdoor Mounting Options#	Back Box & Order Code	Agency Approvals				
								UL	MEA	CSFM	FM	BFP
<b>Strobe</b>												
RSSWP-2475W-FR	9013	180cd	75cd	-	24 VDC	T	WPSBB-R (9751)	X	X	X	X	*
RSSWP-2475W-FW	3034	180cd	75cd	-	24 VDC	T	WPSBB-W (3033)	X	X	X	X	*
RSSWP-2475C-FR	4338	180cd	75cd	-	24 VDC	T	WPSBB-R (9751)	X	X	X	X	*
RSSWP-2475C-FW	4446	180cd	75cd	-	24 VDC	T	WPSBB-W (3033)	X	X	X	X	*
<b>Audible Strobe</b>												
ASWP-2475W-FR	9012	180cd	75cd	90/95/99	24 VDC	I	WPBB-R (9014)	X	X	X	X	X
ASWP-2475C-FR	4251	180cd	75cd	90/95/99	24 VDC	I	WPBB-R (9014)	X	X	X	X	X
<b>Multitone Strobe</b>												
MTWP-2475W-FR	8420	180cd	75cd	76-94	24 VDC	M	IOB-R (5046)	X	X	X	X	*
MTWP-2475C-FR	4457	180cd	75cd	76-94	24 VDC	M	IOB-R (5046)	X	X	X	X	*
MTWP-2475C-FW	4478	180cd	75cd	76-94	24 VDC	M	IOB-W (5047)	X	X	X	X	*
<b>Horns/Audibles</b>												
AH-24WP-R	7416	N/A	N/A	90/95/99	24 VDC	K	WBB-R (2959)	X	X	X	-	X
AH-12WP-R	7415	N/A	N/A	90/95/99	12 VDC	K	WBB-R (2959)	X	X	X	-	X
MT-12/24-R	5023	N/A	N/A	76-94	12/24 VDC	M	IOB-R (5046)	X	X	X	X	X
<b>Speaker Strobe</b>												
ET70WP-2475W-FR	9077	180cd	75cd	77-93	24 VDC	M	IOB-R (5046)	X	X	X	*	*
ET70WP-2475C-FR	4452	180cd	75cd	77-93	24 VDC	M	IOB-R (5046)	X	X	X	*	*
ET70WP-2475C-FW	4454	180cd	75cd	77-93	24 VDC	M	IOB-W (5047)	X	X	X	*	*

### Average RMS Current

Series RSSWP and Strobe in MTWP			
Strobe 75 cd @ -31°F (-35°C)	Regulated Voltage Range	Avg. Current *	
		24.0 VDC	UL Max*
RSSWP-2475W-FR	16.0 - 33.0 VDC	0.094	0.138

24 V Series MTWP						
	Audible				Strobe	
Tone	24.0 VDC		UL Max*		24.0 VDC	UL Max*
	Standard	High	Standard	High	0.094	0.138
Horn	0.033	0.074	0.044	0.108		
Bell	0.018	0.040	0.024	0.053		
March Time	0.033	0.067	0.038	0.104		
Code 3 Horn	0.026	0.069	0.035	0.091		
Code 3 Tone	0.026	0.061	0.035	0.075		
Slow Whoop	0.028	0.069	0.037	0.098		
Siren	0.027	0.080	0.036	0.104		
Hi/Lo	0.020	0.044	0.026	0.057		

#See mounting options pull out guide in the last section of this binder.  
X = Approved \* = Pending

Series ASWP**			
Voltage	High dBA Setting (99) dBA	Medium dBA Setting (95) dBA	Low dBA Setting (90) dBA
24.0 VDC	0.128	0.105	0.098
UL Max*	0.168	0.155	0.150

Series AHWP			
Voltage	AH-24WP	Voltage	AH-12WP
AH-24WP	Hi/Med/Low	AH-12WP	Hi/Med/Low
24.0 VDC	0.062/0.033/0.017	12.0 VDC	0.163/0.076/0.039
UL Max*	0.080/0.043/0.021	UL Max*	0.192/0.108/0.058

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

\*\*Audible and Visual Combined.

10/05

## Description:

Series E50 Speakers & Speaker Strobes are designed for high efficiency sound output with field selectable input voltage (25/70 VRMS) and field selectable taps from 1/8 to 2 watts. They are also designed to provide a sleek, aesthetic appearance for emergency voice/alarm communication systems.

## Strobe Options:

Single Candela **Wall:** 1575 cd

Multi Candela Field Selectable **Wall:** 15/30/75/110 cd  
or 135/185 cd

## Features:

- Mount to 4" square x 2-1/8" deep backbox with no extension ring required
- High efficiency design for maximum output at minimum wattage across a listed frequency range of 400 to 4000 Hz
- Strobes may be synchronized with Wheelock's SM, DSM Sync Modules or PS-12/24-8CP and PS-12/24-8MP Power Supplies with built-in sync protocol



**Series E50  
Speaker Strobe**



**Series E50  
Speaker**

## Specification and Ordering Information

Note: Available October 2004

Model	Order Code	Wall Mount	Ceiling Mount	Strobe Candela	Grill Color	Flush Mount Backbox	Surface Mount Backbox	Mounting Options	Agency Approvals				
									UL	MEA	CSFM	FM	BFP
E50-R	0222	X	X	-	Red	4' x 4" x 2-1/8"	E50SB-R	E,O,P,Q,R,U,Y,AA	X	*	X	X	*
E50-W	0223	X	X	-	White	4' x 4" x 2-1/8"	E50SB-W	E,O,P,Q,R,U,Y,AA	X	*	X	X	*
E50-241575W-FR	0224	X	-	15 (75 on Axis)	Red	4' x 4" x 2-1/8"	E50SSB-R	E,Q,U,BB	X	*	X	X	*
E50-241575W-FW	0225	X	-	15 (75 on Axis)	White	4' x 4" x 2-1/8"	E50SSB-W	E,Q,U,BB	X	*	X	X	*
E50-24MCW-FR	0226	X	-	15/30/75/110	Red	4' x 4" x 2-1/8"	E50SSB-R	E,Q,U,BB	X	*	X	X	*
E50-24MCW-FW	0227	X	-	15/30/75/110	White	4' x 4" x 2-1/8"	E50SSB-W	E,Q,U,BB	X	*	X	X	*
E50-24MCWH-FR	0228	X	-	135/185	Red	4' x 4" x 2-1/8"	E50SSB-R	E,Q,U,BB	X	*	X	X	*
E50-24MCWH-FW	0229	X	-	135/185	White	4' x 4" x 2-1/8"	E50SSB-W	E,Q,U,BB	X	*	X	X	*

## Average RMS Current

E50 Speaker Strobes	E50 Strobe Current - Wall Mount						
	241575W	24MCW				24MCWH	
	1575cd	15cd	30cd	75cd	110cd	135cd	185cd
24 vdc	0.060	0.041	0.063	0.109	0.140	0.195	0.270
UL max*	0.090	0.060	0.092	0.165	0.220	0.300	0.420

#See mounting options  
pull out guide in the last  
section of this binder.  
X = Approved  
\* = Pending

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

E50 UL Reverberant dBA @ 10 Feet**					
watts	1/8	1/4	1/2	1	2
E50 Speaker	77	79.5	82.5	85	88
E50 Speaker Strobe	77	79.5	82.5	85	88

\*\*dBA ratings are based on UL testing under UL Standard 1480

## Description:

Series E Speakers & Speaker Strobes are designed for high efficiency sound output with field selectable input voltage (25/70 VRMS) and field selectable taps from 1/8 to 2 watts.

## Strobe Options:

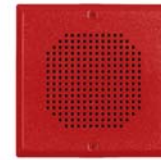
Single Candela **Wall:** 1575 cd

Multi Candela Field Selectable **Wall:** 15/30/75/110 cd  
or 135/185 cd

**Ceiling:** 15/30/75/95 cd  
or 115/177 cd

## Features:

- High efficiency design for maximum output at minimum wattage across a listed frequency range of 400 to 4000 Hz
- Strobes may be synchronized with Wheelock's SM, DSM Sync Modules or PS-12/24-8CP and PS-12/24-8MP Power Supplies with built-in sync protocol



**Series E70  
Speaker**



**Series E70  
Speaker Strobe**



**Series E90  
Speaker**

## Specification and Ordering Information

Model Number	Order Code	Wall Mount	Ceiling Mount	Strobe Candela	Model Color Red	Model Color White	Model Color Nickel	Mounting Options#	Agency Approvals				
									UL	MEA	CSFM	FM	BFP
E70-24MCW-FR	9022	X	-	15/30/75/110	X	-	-	L,O,P,Q,R,U,Y	X	X	X	X	X
E70-24MCW-FW	9023	X	-	15/30/75/110	-	X	-	L,O,P,Q,R,U,Y	X	X	X	X	X
E70-24MCW-FN	3099	X	-	15/30/75/110	-	-	X	Q,U	X	X	X	X	X
E70-241575W-FR	7871	X	-	15 (75 on Axis)	X	-	-	L,O,P,Q,R,U,Y	X	X	X	X	X
E70-241575W-FW	7876	X	-	15 (75 on Axis)	-	X	-	L,O,P,Q,R,U,Y	X	X	X	X	X
E70-241575W-FN	3100	X	-	15 (75 on Axis)	-	-	X	L,O,P,Q,R,U,Y	X	X	X	X	X
E70-R	7866	X	X	-	X	-	-	P,Q,U	X	X	X	X	X
E70-W	7868	X	X	-	-	X	-	P,Q,U	X	X	X	X	X
E70-N	3108	X	X	-	-	-	X	P,Q,U	X	X	X	X	X
E70-24MCWH-FR	3470	X	-	135/185	X	-	-	L,O,P,Q,R,U,Y	X	X	X	X	*
E70-24MCWH-FW	3474	X	-	135/185	-	X	-	L,O,P,Q,R,U,Y	X	X	X	X	*
E70-24MCWH-FN	0059	X	-	135/185	-	-	X	Q,U	X	X	X	X	*
E90-24MCC-FW	3166	-	X	15/30/75/95	-	X	-	Q,U,V	X	X	X	X	*
E90-24MCC-FR	3165	-	X	15/30/75/95	X	-	-	Q,U,V	X	X	X	X	*
E90-24MCC-FN	3185	-	X	15/30/75/95	-	-	X	Q,U,V	X	X	X	X	*
E90-W	7869	X	X	-	-	X	-	Q,U,V	X	X	X	X	X
E90-R	7867	X	X	-	X	-	-	Q,U,V	X	X	X	X	X
E90-N	3109	X	X	-	-	-	X	Q,U,V	X	X	X	X	X
E90-24MCCH-FW	3471	-	X	115/177	-	X	-	Q,U,V	X	X	X	X	*
E90-24MCCH-FR	3481	-	X	115/177	X	-	-	Q,U,V	X	X	X	X	*
E90-24MCCH-FN	0062	-	X	115/177	-	-	X	Q,U,V	X	X	X	X	*

#See mounting options pull out guide in the last section of this binder.  
X = Approved  
\* = Pending

## Average RMS Current

E70/E90 Speaker Strobes	E70 Strobe Current - Wall Mount							E90 Strobe Current - Ceiling Mount					
	241575W	24MCW				24MCWH		24MCC				24MCCH	
		1575cd	15cd	30cd	75cd	110cd	135cd	185cd	15cd	30cd	75cd	95cd	115cd
24 vdc	0.060	0.041	0.063	0.109	0.140	0.195	0.270	0.045	0.070	0.119	0.159	0.195	0.270
UL max*	0.090	0.060	0.092	0.165	0.220	0.300	.0420	0.065	0.105	0.189	0.249	0.300	0.420

### E70/E90 UL Reverberant dBA @ 10 Feet\*\*

watts	1/8	1/4	1/2	1	2
E Speaker	77	81	83	86	89
E Speaker Strobe	76	80	82	85	88

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

\*\*dBA ratings are based on testing under UL Standard 1480.

06/05

## Series ET Speakers & Speaker Strobes

### Description:

Series ET Speakers & Speaker Strobes provide high audio output, clear audibility, field selectable input voltage (25/70 VRMS) and field selectable taps from 1/8 to 8 watts.

### Strobe Options:

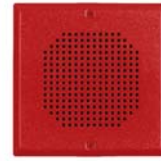
Single Candela **Wall:** 1575 cd

Multi Candela Field Selectable **Wall:** 15/30/75/110 cd  
or 135/185 cd

**Ceiling:** 15/30/75/95 cd  
or 115/177 cd

### Features:

- High efficiency design for maximum output at minimum wattage across a frequency range of 400 to 4000 Hz
- Synchronize with Wheelock's SM, DSM Sync Modules or PS-12/24-8CP and PS-12/24-8MP Power Supplies with built-in sync protocol



**Series ET70  
Speaker**



**Series ET70  
Speaker Strobe**



**Series ET90  
Speaker**

### Specification and Ordering Information

Model Number	Order Code	Wall Mount	Ceiling Mount	Strobe Candela	Model Color Red	Model Color White	Model Color Nickel	Mounting Options#	Agency Approvals				
									UL	MEA	CSFM	FM	BFP
ET70-24MCW-FR	9020	X	-	15/30/75/110	X	-		L,O,P,Q,R,U,Y	X	X	X	X	X
ET70-24MCW-FW	9021	X	-	15/30/75/110	-	X		L,O,P,Q,R,U,Y	X	X	X	X	X
ET70-24MCW-FN	3091	X	-	15/30/75/110	-	-	X	Q,U	X	X	X	X	X
ET70-241575W-FR	7848	X	-	15 (75 on Axis)	X	-		L,O,P,Q,R,U,Y	X	X	X	X	X
ET70-241575W-FN	3092	X	-	15 (75 on Axis)	-	-	X	Q,U	X	X	X	X	X
ET70-24MCWH-FR	3472	X	-	135/185	X	-	-	L,O,P,Q,R,U,Y	X	X	X	X	*
ET70-24MCWH-FW	3475	X	-	135/185	-	X	-	L,O,P,Q,R,U,Y	X	X	X	X	*
ET70-24MCWH-FN	0061	X	-	135/185	-	-	X	Q,U	X	X	X	X	*
ET70WP-2475-FR	9077	X	-	180	X	-	-	M (Outdoor)	X	X	X	*	*
ET90-24MCC-FW	3164	-	X	15/30/75/95	-	X		Q,U,V,Y	X	X	X	X	*
ET90-24MCC-FR	3163	-	X	15/30/75/95	X	-		Q,U,V,Y	X	X	X	X	*
ET90-24MCC-FN	3186	-	X	15/30/75/95	-	-	X	Q,U,V,Y	X	X	X	X	*
ET90-24MCCH-FW	3473	-	X	115/177	-	X	-	Q,U,V,Y	X	X	X	X	*
ET90-24MCCH-FR	0139	-	X	115/177	X	-	-	Q,U,V,Y	X	X	X	X	*
ET90-24MCCH-FN	0062	-	X	115/177	-	-	X	Q,U,V,Y	X	X	X	X	*
ET70-W	7844	X	X	-	-	X		L,O,P,Q,R,U,Y	X	X	X	X	X
ET70-R	7840	X	X	-	X	-		L,O,P,Q,R,U,Y	X	X	X	X	X
ET70-N	3097	X	X	-	-	-	X	Q,U	X	X	X	X	X
ET90-W	7846	X	X	-	-	X	-	Q,U,V	X	X	X	X	X
ET90-R	7842	X	X	-	X	-	-	Q,U,V	X	X	X	X	X
ET90-N	3098	X	X	-	-	-	X	Q,U,V	X	X	X	X	X

#See mounting options pull out guide in the last section of this binder.  
X = Approved  
\* = Pending

### Average RMS Current

ET70/ET90 Speaker Strobes	ET70 Strobe current - Wall Mount							ET90 Strobe current - Ceiling Mount					
	241575W	24MCW				24MCWH		24MCC				24MCCH	
	1575cd	15cd	30cd	75cd	110cd	135cd	185cd	15cd	30cd	75cd	95cd	115cd	177cd
24 vdc	0.060	0.041	0.063	0.109	0.140	0.195	0.270	0.045	0.070	0.119	0.159	0.195	0.270
UL max*	0.090	0.060	0.092	0.165	0.220	0.300	0.420	0.065	0.105	0.189	0.249	0.300	0.420

#### ET70/ET90 UL Reverberant dBA @ 10 Feet\*\*

watts	1/8	1/4	1/2	1	2	4	8
ET Speaker	78.3	81.5	84.4	87.2	90.1	92.8	94.9
ET Speaker Strobe	78.3	81.5	84.4	87.2	90.1	92.8	94.9

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

\*\*dBA ratings are based on UL testing under UL Standard 1480

06/05



## Description:

Wheelock's Series ET Vandal Resistant speakers and speaker strobes provide a full range of rugged, high performance combinations specifically designed to meet the critical needs of the life safety industry for voice and tone signaling.

## Strobe Options (ET80):

Single Candela **Wall:** 1575 cd  
Multi Candela **Wall:** 15/30/75/110cd  
or 135/185

## Features:

- High efficiency design for maximum output at minimum wattage across a listed frequency range of 400 to 4000 Hz
- SLM Strobes may be synchronize with Wheelock's SM, DSM Sync Modules or PS-12/24-8MP Power Supply with built-in sync protocol
- Sealed back speaker construction for extra protection and improved audibility



**Series ET-1010  
Speaker**



**Series ET80  
Speaker Strobe**

## Specification and Ordering Information

Model Number	Order Code	Color	Mounting Location	Mounting Options <sup>#</sup>	Candela	Agency Approvals				
						UL	MEA	CSFM	FM	BFP
ET-1010-R	3135	red	wall/ceiling	K,N,O,R	-	X	X	X	X	X
ET-1010-W	3137	white	wall/ceiling	K,N,O,R	-	X	X	X	X	X
ET-1080-R	3141	red	wall/ceiling	O,P,Q,Y	-	X	X	X	X	X
ET80-241575W-FR	3037	red	wall	O,P,Q,R,Y	15(75 on axis)	X	X	X	X	*
ET80-241575W-FW	3038	white	wall	O,P,Q,R,Y	15(75 on axis)	X	X	X	X	*
ET80-24MCW-FR	3476	red	wall	O,P,Q,R,Y	15/30/75/110	X	X	X	X	*
ET80-24MCW-FW	3477	white	wall	O,P,Q,R,Y	15/30/75/110	X	X	X	X	*
ET80-24MCWH-FR	3478	red	wall	O,P,Q,R,Y	135/185	X	X	X	X	*
ET80-24MCWH-FW	3479	white	wall	O,P,Q,R,Y	135/185	X	X	X	X	*

#See mounting options pull out guide in the last section of this binder.

X = Approved  
\* = Pending

## Average RMS Current

Model Number	ET80-241575	ET80-24MCW				ET80-24MCWH	
<b>candela</b>	1575cd	15cd	30cd	75cd	110cd	135cd	185cd
<b>@ 24 VDC</b>	0.060	0.041	0.063	0.109	0.140	0.195	0.270
<b>UL max*</b>	0.090	0.060	0.092	0.165	0.220	0.300	0.420

Speaker dBA at 10 Feet (ET-1010 )							
<b>Watts</b>	1/8	1/4	1/2	1	2	4	8
<b>dBA</b>	77	80	83	86	87	92	94

Speaker dBA at 10 Feet (ET-1080 and ET80-24MCW)							
<b>Watts</b>	1/8	1/4	1/2	1	2	4	8
<b>dBA</b>	78	81	84	87	90	92	94

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.



## Series S UL Listed 8" Speaker & Speaker Strobe

### Description:

The Series S, 8" Ceiling Speakers and Speaker Strobes are available in three configurations:

#### S8-70/25

Dual voltage, multi-tap speaker

#### S8-24MCC

Speaker with field selectable candela settings of 15/30/75/95cd

#### S8-24MCCH

Speaker with field selectable candela settings of 115/177cd

### Features:

#### Speaker and Speaker Strobes

- Dual voltage transformer (25/70V)
- Jumper selectable multiple wattage taps:  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{1}{2}$ , 1, 2, 4, 8
- 93 dBA @ 8 watts of source power
- Frequency Response: 200Hz - 15kHz  
400Hz - 4kHz (UL)
- Magnet weight: 9.5 oz.
- Speaker impedance: 8 ohms
- Round metal 12" grille, with white powder coated finish
- Compatible with DC circuit supervision
- UL Listed under Standard 1480

#### Speaker Strobes Only

- Synchronized or non-synchronized strobe capability
- Xenon flashtube with solid state circuitry enclosed in a rugged Lexan<sup>®</sup> lens
- Field selectable candela settings
- UL Listed under Standard 1971



**Series S8-24MCC  
Series S8-24MCCH**



**Series S8-70/25**

### Applications:

- Use with SP40/2 Multi-Function Facility Communications System
- Provides for audio quality background music

### Specification and Ordering Information

Model Number	Order Code	Voltage (VRMS)	Speaker								Regulated Voltage VDC/FWR	Strobe		Approvals				
			dBA @ 10 Feet (Rated Watts)									Candela	Voltage Range VDC/RMS	UL 1480	UL 1971	CSFM	MEA	
			1/8	1/4	1/2	1	2	4	8									
S8-70/25	0052	25/70	75	78	81	84	87	90	93	-	-	-	X	N/A	X	X		
S8-24MCC	0054	25/70	75	78	81	84	87	90	93	24	16.0-33.0	15/30/75/95	X	X	X	X		
S8-24MCCH	0056	25/70	75	78	81	84	87	90	93	24	16.0-33.0	115/177	X	X	X	X		
CBB-8	3314	UL Listed Circular Backbox for 8" Speakers																

### Average RMS Current

Average RMS Current	Strobe					
	24MCC				24MCCH	
	15cd	30cd	75cd	95cd	115cd	177cd
24 VDC	0.045	0.070	0.119	0.159	0.195	0.270
UL Max*	0.065	0.105	0.189	0.249	0.300	0.420

Note: In order to maintain proper UL 1480 listing, the CBB-8 Speaker Back Box (available separately) or other UL approved back box must be installed.

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

Weight Speaker = 3.75 lbs.

Weight Speaker/Strobe = 4 lbs.

10/05

## Description:

Wheelock's Series STH Cluster Speakers are designed for high ambient noise environments. The Cluster Speakers are available in multiple configurations. Provides high intelligibility voice reproduction and available high intensity visual alerting (STH-MSR models) for emergency alarm and protective signaling.

## Features:

- Equipped with UL Standard 1480, STH-15SR horn loudspeakers
- MSR models are equipped with a UL Standard 1638, DC-MAX-C Strobe
- Each individual STH-15SR horn is capable of delivering up to 102 dB at 15 watts at 10 feet
- Omni-directional sound
- DC-MAX-C strobe has a 100 candela strobe at 60 double flashes per minute
- Speakers and Strobes are prefabricated to a 10" x 10" x 6" steel enclosure for indoor use
- Mounts to ceiling or wall
- Labor savings - (both time and money)
- Conduit knockouts for 1/2" or 3/4" coupling
- Shipped in one box



**Series STH Cluster  
w/Max Strobe**

## Specification and Ordering Information\*

Model Number	Order Code	Description
STH-4MSR	8157	Speaker/visual systems supplied with four STH-15SR horns and one DC-MAX-C Strobe mounted to a NEMA Type 1 steel enclosure. (red)
STH-3MSR	8156	Speaker/visual systems supplied with three STH-15SR horns and one DC-MAX-C Strobe mounted to a NEMA Type 1 steel enclosure. (red)
STH-2MSR	8155	Speaker/visual systems supplied with two STH-15SR horns and one DC-MAX-C Strobe mounted to a NEMA Type 1 steel enclosure. (red)
STH-4R	8186	Speaker System supplied with four STH-15SR horns mounted to a NEMA Type 1 steel enclosure. (red)
STH-3R	9753	Speaker System supplied with three STH-15SR horns mounted to a NEMA Type 1 steel enclosure. (red)
STH-2R	9752	Speaker System supplied with two STH-15SR horns mounted to a NEMA Type 1 steel enclosure. (red)
STH-2G	0101	Speaker System supplied with two STH-15SR horns mounted to a NEMA Type 1 steel enclosure. (gray)

Note: Not intended for wash down areas or outdoor applications (See Weatherproof Series).

Note: The Series Cluster Speakers with MAX strobes (STH-4MSR, STH-3MSR & STH-2MSR) are not intended for UL required Fire Life Safety applications.

\*The Series Cluster Speakers with Max strobe are a special order.

## Applications:

- Designed for use in Manufacturing Plants, Processing Plants and Factories with high ambient noise levels.
- Hazard warning/alerting
- Industrial audible and visual signaling
- Process control area notification
- Warning lights
- Security alert indication

### Description:

Wheelock's Weatherproof Series STH-4M30WC Cluster Speaker is designed for high ambient noise and outdoor environments. Provides high intelligibility voice reproduction and available high intensity visual alerting for emergency alarm and protective signaling.

### Features:

- Equipped with four STH-30, 30 watt horn loudspeakers
- Equipped with UL Standard 1638, DC-MAX-C strobe
- Complies with OSHA 1910.165
- The Series STH-4M30WC appliances are weatherproof
- Capable of delivering over 125 dB @ 30 watts, 1 meter
- Omni-directional sound
- Speakers come preset at 30 watts each
- DC-MAX-C strobe has a 100 candela strobe at 60 double flashes per minute
- Speakers and Strobe are prefabricated to a 13.50" x 15.50" x 6.25" NEMA 4X rated fiberglass enclosure
- Mounts to ceiling, wall or roof
- Labor savings
- Conduit knockouts for 1/2" coupling
- Shipped in one box



**Series STH-4M30WC  
Weatherproof Cluster**

### Specification and Ordering Information\*

Model Number	Order Code	Description
STH-4M30WC	9762	Speaker/Visual system supplied with four STH-30 horns and one DC-MAX-C strobe mounted to a NEMA Type 4X fiberglass enclosure (gray)

Note: Not intended for wash down areas.

\*The Series STH-4M30WC is a special order.

### Applications:

- Manufacturing Plants
- Hazard warning/alerting
- Industrial audible and visual signaling
- Process control area notification
- Warning lights
- Security alert indication
- Personnel alerting
- Intrusion warning
- Piers or docks

## Description:

Wheelock's Series STH Cluster Speaker with MCCH Multi-Candela Strobe is designed for indoor ceiling mounting in high ambient noise environments. Series STH Cluster Speaker with MCCH Strobe is designed for UL Required Life Safety applications. Provides high-intelligibility voice reproduction and high intensity visual alerting for emergency life safety applications, alarm and protective signaling

## Features:

- STH-15SR Speakers are UL Standard 1480 Listed.
- RSS-24MCCH Strobes are UL Standard 1971 Listed
- Compliant with ADA, OSHA 1910.165, ANSI 117.1, NFPA 72, NFPA 101, and UFC
- Cluster and Strobe wiring can be monitored for integrity by the Control Panel
- Cluster Speaker Strobes come fully assembled
- High efficiency unit for fire life safety and/or general communication announcing/notification
- Speakers and Strobes are prefabricated to a 10" x 10" x 6" NEMA 1 steel enclosure for indoor use.
- Mounts to ceiling
- Only 1 pair of wires needed for audio connections
- Strobes are connected to the NAC Strobe Circuit and are selectable 115 or 177 cd
- Each individual STH-15SR horn is capable of delivering up to 102 dB at 15 watts at 10 feet
- Omni-direction
- Conduit knockouts for 1/2" or 3/4" coupling
- Labor Saving



**Series STH-MCCH**

## Applications for Series Cluster Speaker Strobes:

Designed for use in Manufacturing Plants, and Factories with high ambient noise levels and for UL Required Fire Life Safety Applications.

- Hazard warning/alerting
- Industrial audible and visual signaling
- Process control area notification
- Warning lights
- Security alert indication
- Emergency notification
- Employee notification

## Specification and Ordering Information\*

Model Number	Order Code	Description	Strobe Plate
STH-4R24MCCH-NR	3089		Red with no lettering
STH-4R24MCCH-FR	3090	Supervised Speaker Strobe supplied with four STH-15SR horns and one RSS-24MCCH ceiling strobe mounted to a NEMA 1 steel enclosure	Red with FIRE lettering
STH-4R24MCCH-NW	0239		White with no lettering
STH-4R24MCCH-FW	0235		White with FIRE lettering
STH-3R24MCCH-NR	3144		Red with no lettering
STH-3R24MCCH-FR	3145	Supervised Speaker Strobe supplied with three STH-15SR horns and one RSS-24MCCH ceiling strobe mounted to a NEMA 1 steel enclosure	Red with FIRE lettering
STH-3R24MCCH-NW	0238		White with no lettering
STH-3R24MCCH-FW	0234		White with FIRE lettering
STH-2R24MCCH-NR	3146	Supervised Speaker Strobe supplied with two STH-15SR horns and one RSS-24MCCH ceiling strobe mounted to a NEMA 1 steel enclosure	Red with no lettering
STH-2R24MCCH-FR	3143		Red with FIRE lettering
STH-90-R24MCCH-NR	3227	Supervised Speaker Strobe supplied with two STH-15SR horns mounted adjacent to each other, designed for a corner mount configuration and one RSS-24MCCH ceiling strobe mounted to a NEMA 1 steel enclosure	Red with no lettering
STH-90-R24MCCH-FR	0522		Red with FIRE lettering

\*The Series Cluster Speakers are a special order.

**NOTE: Not intended for washdown areas.**

## Description:

Wheelock's Series STH-15S Supervised Horn Loudspeakers are equipped with a compression driver providing up to 15 watts of power handling capability, superior intelligibility and dispersion to achieve maximum sound projection and penetration.

## Features:

- Approvals Include: UL Standard 1480 – (Speakers for Fire Protective Signaling Systems), California State Fire Marshal (CSFM)
- 15-Watt High Efficiency Compression Driver
- Weather-resistant, vandal-resistant aluminum construction assures protection against water, humidity, vermin, and corrosion
- Reentrant acoustic path
- 25/70/100V transformer featuring a screwdriver adjustable, 7 position watt/impedance selection switch
- 5 mfd Capacitor for Line Supervision
- Universal-mounting bracket
- Installation terminals and power selector are recessed mounted, and protected by the metal interface adapter, or clear plastic shield



**Series STH-15S**



**Series SHMP-R**

## Specification and Ordering Information

Model Number	Order Code	Description
STH-15S	7937	Supervised, Weatherproof, 15 Watt Horn, Loudspeaker w/ Transformer, Aluminum, Gray
STH-15SR	7938	Supervised, Weatherproof, 15 Watt Horn, Loudspeaker w/ Transformer, Aluminum, Red
SHMP-R	8154	UL Listed Adapter Plate, Designed to mount the STH-15SR Horn Speaker (7938) to a Series RSSP Strobe Mounting Plate. For Surface Mount Applications, the SBL-2 (6988) Surface Mount Backbox is required.

## STH-15S & STH-15SR Power Switch Selections

Setting	Impedance (Ohms)	70.7 Volts			25 Volts			100 Volts	
		Watts	dB @ 10 Feet		Watts	dB @ 10 Feet		Watts	dB @ 10 Feet
1	5,000	0.9W	90		Not Used	Not Used		2.0W	93
2	2,500	1.8W	93		Not Used	Not Used		4.0W	96
3	1,300	3.8W	96		0.48W	87		7.5W	99
4	666	7.5W	99		0.94W	90		15.0W	102
5	333	15.0W	102		1.8W	93		Not Used	Not Used
6	89	Not Used	Not Used		7.5W	99		Not Used	Not Used
7	45	Not Used	Not Used		15.0W	102		Not Used	Not Used

## Specifications (UL RATING)

POWER RATING:	15 Watt Continuous
FREQUENCY RESPONSE:	400-4,000 Hz
SENSITIVITY:	102 dB @ 15 Watts @ 10'

## SPECIFICATIONS GENERAL

DISPERSION ANGLE:	70 Degrees (-6 dB @ 2,000 Hz Octave Band)
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## Anechoic measurements:

15 watt tap @ 10 feet

Code-3 Tone	107.2 dBA
Slow Whoop	108.5 dBA
Siren	107.8 dBA



## Series SA-S Supervised Self-Amplified Speakers & Speaker Strobes

### Description:

The Series SA-S Supervised Self-Amplified Speakers and Speaker Strobes are designed to meet the critical needs for the life safety industry. These 4" speakers and speaker strobes are a perfect fit for SCIF (Sensitive Compartmented Information Facilities) room applications.

### Features:

- Approvals Include: UL Standard 1480 (Speakers) and UL Standard 1971 and UL Standard 1480 (Speaker Strobes)
- Accepts audio input levels of 0.5 VRMS or 25 VRMS
- Power Input Voltage 16.0 to 33.0 VDC
- 4" Wall or ceiling mount models
- Speaker strobes utilize Wheelock's synchronizable Multi-Candela Strobe (15/30/75/95cd)
- 1 watt high efficiency speaker
- 6 different sound output levels (ranging from 84 to 68 dBA)
- Frequency range of 400Hz to 4000Hz
- Mounts onto a 4" square deep backbox with an extension ring



**Series SA-S70-24MCW-FR**



**Series SA-S90-24MCC-FW**

### Specification and Ordering Information

Model Number	Order Code	Wall Mount	Ceiling Mount	Strobe Candela	Model Color Red	Model Color White	Mounting Options#	Agency Approvals UL
SA-S90-R	1000	-	X	-	X	-	Q	X
SA-S90-W	1001	-	X	-	-	X	Q	X
SA-S70-R	1002	X	-	-	X	-	Q	X
SA-S70-W	1003	X	-	-	-	X	Q	X
SA-S90-24MCC-FR	1004	-	X	15/30/75/95	X	-	Q	X
SA-S90-24MCC-FW	1005	-	X	15/30/75/95	-	X	Q	X
SA-S70-24MCW-FR	1006	X	-	15/30/75/110	X	-	Q	X
SA-S70-24MCW-FW	1007	X	-	15/30/75/110	-	X	Q	X

#See mounting options pull out guide in the last section of this binder.  
X= Approved

### Average Strobe RMS Current

SA-S 24 VDC Models	24MCW				24MCC			
	15cd	30cd	75cd	110cd	15cd	30cd	75cd	95cd
24 VDC	0.041	0.063	0.109	0.140	0.045	0.070	0.119	0.159
UL Max*	0.060	0.092	0.165	0.220	0.065	0.105	0.189	0.249

### Average Speaker Current Draw

.120 mA

dB Sound Output**			
Sound Level	SA-S90R SA-S90W SA-S70R SA-S70W	SA-S90-24MCC-FR SA-S90-24MCC-FW	SA-S70-24MCC-FR SA-S70-24MCC-FW
6	84	84	82
5	82	81	81
4	77	77	76
3	75	74	74
2	71	71	70
1	69	68	68

\* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

\*\*Rated Reverberant dBA at 10 ft per UL 1480 for 0.5 V and 25 V settings



**Description:**

Wheelock Series SM & DSM Synchronization Modules provide the ability to synchronize the strobe flashes and the code 3 temporal evacuation alarm produced by Wheelock notification appliances. They also provide the ability to silence the audible alarm while maintaining the strobe flashes over a single pair of wires.

**Features:**

- 3 ampere per circuit current handling at 12 or 24 VDC
- Low operating current draw



**Series SM & DSM**

**Specification and Ordering Information**

Model Number	Order Code	Input Voltage VDC	Average Current @ 12 or 24 VDC	UL Max*	Mounting Options
SM-12/24-R	6369	12	.017	0.023	W
		24	.028	0.038	W
DSM-12/24-R	6374	12	.020	0.026	W
		24	.035	0.055	W

**Sync Capability**  
(With SM, DSM, PS-12/24-8CP or PS-12/24-8MP)

Model	Audible	Strobe	Model	Audible	Strobe
AH-12	Yes	-	ET90-24MCC	-	Yes
AH-24	Yes	-	ET90-24MCCH	-	Yes
AH-12WP	Yes	-	HS-24	Yes	-
AH-24WP	Yes	-	HS4-241575W	Yes	Yes
AMT-241575W	No	Yes	HS4-24MCW	Yes	Yes
AMT-241575W-FR-NYC	No	Yes	HS4-24MCWH	Yes	Yes
AMT-24MCW	No	Yes	MIZ-24S	Yes	-
AS-241575W	Yes	Yes	MT-121575W	No	Yes
AS-24MCC	Yes	Yes	MT-241575W	No	Yes
AS-24MCCH	Yes	Yes	MT-24MCW	No	Yes
AS-24MCW	Yes	Yes	MTWP-2475W	No	Yes
AS-24MCWH	Yes	Yes	NH-12/24	Yes	-
ASWP-2475W	Yes	Yes	NS-121575W	Yes	Yes
CH70-241575W	No	Yes	NS-241575W	Yes	Yes
CH7024MCW	No	Yes	NS-24MCW	Yes	Yes
CH7024MCWH	No	Yes	RSS-241575W	-	Yes
CH90-24MCC	No	Yes	RSS-121575W	-	Yes
CH90-24MCCH	No	Yes	RSS-24MCC	-	Yes
E50-24MCW	-	Yes	RSS-24MCCH	-	Yes
E50-25MCWH	-	Yes	RSS-24MCCHR	-	Yes
E50-241575W	-	Yes	RSS-24MCCR	-	Yes
E70-241575W	-	Yes	RSS-24MCW	-	Yes
E70-24MCW	-	Yes	RSS-24MCWH	-	Yes
E70-24MCWH	-	Yes	RSSP-121575W	-	Yes
E90-24MCC	-	Yes	RSSP-241575W	-	Yes
E90-24MCCH	-	Yes	RSSP-24MCW	-	Yes
ET70-241575W	-	Yes	RSSP-24MCWH	-	Yes
ET70-24MCW	-	Yes	RSSWP-2475W	-	Yes
ET70-24MCWH	-	Yes	S8-24MCC	-	Yes
ET70WP-2475W	-	Yes	S8-24MCCH	-	Yes
ET80-241575W	-	Yes	SA-S70-24MCW	-	Yes
ET80-24MCW	-	Yes	SA-S90-24MCC	-	Yes
ET80-24MCWH	-	Yes	SA-S90-24MCW	-	Yes
ET90-24MCW	-	Yes	STH-MCCH	-	Yes
ET90-24MCWH	-	Yes			

Key: - = Not Applicable to model

06/05

# POWERPATH™ Series PS-12/24-8CP and PS-12/24-8MP Power Supply/Chargers

## Description:

Wheelock's Series PS-12/24-8CP and PS-12/24-8MP Power Supply/Chargers provides 8 amps of regulated 12 or 24 VDC power for up to 4 Class B or 2 Class A NAC circuits with 3 amps max per circuit. Auxiliary power and synchronization capability for notification appliances is also provided.

The PS-12/24-8CP provides up to 200 milliamps of continuous auxiliary output that can be used for control functions during alarm (or up to 60 milliamps for 60 hour battery requirements). The PS-12/24-8MP provides up to 3.5 amps of auxiliary output that is available only during nonalarm condition for such applications as door holder systems.

## Features:

- System provides either 12 or 24 VDC inputs and 12 or 24 V outputs
- Not battery dependent - full 8A even if battery is degraded
- Class 2 rated power limited outputs
- Thermal and short circuit protection with auto reset
- Patented built-in synchronization mode to operate all of Wheelock's Synchronized Notification Appliances
- Auxiliary Power
- Up to 200mA continuous with PS-12/24-8CP
- up to 3.5 Amps nonalarm with PS-12/24-8MP (e.g. door holders)

## Specification and Ordering Information

Model Number	Order Code	Input Voltage	Approvals			
			UL	MEA	CSFM	FM
PS-12/24-8CP	3047	120/220 VAC	X	X	X	*
PS-12/24-8MP	3046	50/60 Hz, 5.0 amps max.	X	X	X	X



**Series PS-12/24-8CP  
Series PS-12/24-8MP**



### Description:

Wheelock's Series MPS Manual Pull Stations are constructed of high quality, die-cast metal for long lasting performance and may be mounted on a single gang backbox.

### Features:

- Single or Dual action
- Key Reset
- Terminal Strip Connections
- Corrosion resistant, gold plated SPST contacts
- Mounts on single gang backbox
- Surface and Weatherproof backboxes available
- High-gloss red enamel finish with raised white lettering
- Approvals Include: UI Standard, Factory Mutual (FM), California State Fire Marshal (CSFM) and New York City (MEA)



**Series MPS-100**



**Series MPS-400X**

### Specification and Ordering Information

Model Number	Order Code	Description	Mounting Options
MPS-100	8400	SPST, Single Action, Terminals, Key Reset	MPS-ISB, MPS-WP
MPS-200	8401	SPST, Double Action, Terminals, Key Reset	MPS-ISB, MPS-WP
MPS-300	8402	DPST, Single Action, Terminals, Key Reset	MPS-ISB, MPS-WP
MPS-400X	8403	Explosion Proof, Single Action, Key Reset	(Backbox provided)
MPS-ISB	8404	Interior Surface Backbox, Red	
MPS-WP	8405	Weatherproof Backbox with Gasket Assembly	
MPS-RODS	8406	Scored Acrylic Breakrods (dozen)	

### Description:

The **SP40/2** is a Multi-Function Supervised Paging, Messaging, Background Music and Emergency Voice Evacuation System with 24 VDC battery backup. This single channel system is capable of delivering 40 watts of supervised *high fidelity* audio power and 2 amps of supervised 24 VDC synchronized strobe power.

### Features:

#### Approvals & Compliance

- UL Standard 864, UL Standard 1711, California State Fire Marshal (CSFM), New York City (MEA), FCC Part 15
- OSHA 1910.165 and ADA Compliant

#### Voice Evacuation

- Complies with NFPA-72 requirements
- Supervised NAC speaker and strobe circuits
- Live microphone override with on board handheld microphone
- 3 digitally prerecorded voice messages
- Messages are field programmable

#### General Paging

- Easily interfaces with most existing phone system page ports, CO ports and line level signals
- Automatically mutes background music (BGM)
- Night ringer or security alert connection
- Volume and tone controls

#### Background Music

- Unique supervision method allows for full system supervision even during background music (BGM)
- Line Level input for music source
- Volume and tone controls

### Specification and Ordering Information:

Model Number	Order Code	Description
SP40/2	8985	Multi-Function Supervised Paging, Messaging, Background Music and Emergency Voice Evacuation System with 24 VDC battery backup circuitry. Single channel system with 40 watts of supervised audio power and 2 amps of supervised 24 VDC synchronized strobe power and 3 standard messages. (batteries not included, 2 required) Red enclosure.
SP40/2-B	9928	Same as above, but black enclosure.
SPPMK	8987	3 Message Factory Programmed Kit
AM-SPSMK	9902	After Market 3 Message Standard Message Kit
AM-SPPMK	9903	After Market 3 Message Factory Programmed Kit
AM-SPSTK	9000	Narrow Band Tone Message Kit for SP40/2
SP-COA	9908	C.O. Port Adapter for the SP40/2 -Recommended 24 VDC Power Supply is Wheelock RPS-2406 (Order Code 3770)
BAT-1212	7390	12 volt, 12-ampere hour battery
SP4-3MEM-SMK	9913	SP40/2 3 message extender module with standard messages
SP4-3MEM-PMK	9915	SP40/2 3 message extender module with customer programmed messages

#### Technical Specifications

Switch mode, Class D amplifier (40 Watts)

Speaker Outputs: 25 V or 70.7 V power limited

Frequency Response: **Voice:** 275 Hz – 6.5 kHz ± 3 dB  
**BGM:** 100 Hz - 15 kHz ± 3 dB  
Meets UL Voice Evacuation Requirements of 400 - 4000 Hz

#### Mechanical Specifications

Dimensions 21" H x 16" W x 6" D (wall mount)

Weight 36 lbs. (without batteries)

Finish Red or black metal enclosure with key lock

Required batteries fit in the enclosure



**SP40/2**  
**Outside Panel**



**SP40/2**  
**Inside Panel**

### Strobes

- 2 Amps of 24 VDC supervised strobe power with built-in Wheelock sync protocol
- Strobe output is selectable for control of Wheelock sync protocol or non-sync operation
- Any of the three messages can be dip switch selected to activate strobes

### System Activation

- 9-31 VDC
- NAC input from an FACP

### Expansion Capabilities

- 5,280 watt of supervised audio with SPB-80/4, SPB-160 or SPB-320 audio boosters
- Strobe power expandable to the requirements of the system with SPB-80/4 or PS-12/24-8MP or PS-12/24-8CP
- Remote Microphone SPRM
- Speaker Splitter S4PZ-A/B
- 3 additional messages SP4-3MEM

## Benefits and Advantages of the Multi-Function SAFEPATH®4

- One Multi-Function Facility Communications System
- Background Music (BGM), with patent pending supervision during BGM operation
- Supervised Emergency/Fire Voice Evacuation
- Interfaces with telephone system for general paging requirements
- Built in power for visual notification appliances e.g., Strobes
- Expandable for larger system requirements (with optional equipment)

### Message Capabilities

A three (3) message Standard Message Kit (SPSMK) is included with the SP40/2.

**Message 1:** Three (3) rounds of code 3 horn (followed by): “May I have your attention please! A fire emergency has been reported in the building. While this is being verified, please leave the building by the nearest exit.”  
(FIRE)

**Message 2:** Three (3) rounds of code 3 horn (followed by): “May I have your attention please! An emergency has been reported in the building. While this is being verified, please stand by for further instructions.”  
(ALERT)

**Message 3:** Five (5) seconds of 1kHz tone (followed by): “May I have your attention please! The building emergency has ended. An all clear has been given. Please resume normal activities.”  
(ALL CLEAR)

- The SP40/2 comes standard with three messages with approximately 20 seconds of time per message (including tones)
- Any of the three standard messages are field programmable (requires a 2-step recording process to ensure and verify that the standard emergency message is to be permanently erased)
- The message memory is comprised of one minute of erasable memory
- Factory Programmed Message Kits (**SPPMK**) are available for custom messages – contact customer service for additional information

**Note:** When ordering Factory Programmed Message Kits SPPMK (8987) or the AM-SPPMK (9903), for custom messages, the messages can be divided in 20 second blocks with any of the following options:

- Option 1** 3 messages with a maximum of 20 seconds each (Standard)
- Option 2** 2 messages, 1 message with a maximum of 40 seconds and 1 message with a maximum of 20 seconds
- Option 3** 1 message with a maximum of 60 seconds

Contact customer service for additional information.

**Description:**

Supervised Facility Communication and Emergency Voice Evacuation Audio and Audio/Strobe Power Boosters, with 24 VDC battery backup capabilities.

**Features:**

- The SPB-320, SPB-160 and the SPB-80/4 easily connects to the Wheelock SP40/2
- Multiple SPB-320, SPB-160 and SPB-80/4 Audio Boosters can be inter-connected to accommodate large installations with supervised audio power and also supervised and synchronized strobe power requirements

**Approvals & Compliance**

- UL Standard 864, UL Standard 1711, California State Fire Marshal (CSFM), New York City (MEA)
- OSHA 1910.165, ADA compliant and UFC Compliant

**SPB-80/4 Strobe**

- Two 24 VDC 2 Amps, NAC supervised, synchronizable, power limited, Class B strobe outputs
- Selectable outputs; Wheelock sync, pass through, or constant DC

**System Activation**

**Audio (SPB-320, SPB-160 or SPB-80/4)**

- 70 V or 25 V input from the SP40/2

**Strobe (SPB-80/4)**

- 8-33 VDC NAC input connected to the strobe input



**SPB-160  
SPB-80/4**



**SPB-320**

**SPB-320**

320 Watt Supervised Audio Power  
Booster (Four 80 watt circuits)

**SPB-160**

160 Watt Supervised Audio Power  
Booster (Two 80 watt circuits)

**SPB-80/4**

80 Watt Supervised Audio Power  
Booster with 4 Amps of Supervised  
and Synchronizable Strobe Power  
(Two 2 Amp circuits)

**Specification and Ordering Information:**

Model Number	Order Code	Description
SPB-320	9918	320 Watt Supervised Audio Power Booster (Four 80 watt circuits)
SPB-160	8989	160 Watt Supervised Audio Power Booster (Two 80 watt circuits), red enclosure
SPB-160-B	9930	160 Watt Supervised Audio Power Booster (Two 80 watt circuits), black enclosure
SPB-80/4	8988	80 Watt Supervised Audio Power Booster with 4 Amps of Supervised and Synchronized Strobe Power (Two 2 Amp circuits), red enclosure
SPB-80/4	9931	80 Watt Supervised Audio Power Booster with 4 Amps of Supervised and Synchronized Strobe Power (Two 2 Amp circuits), black enclosure
SP4Z-A/B	9900	Supervised 2-Zone Class A or 4-Zone Class B Speaker Audio Splitter for the SP40/2 or Boosters
SPMB4Z	9907	Speaker Splitter Mounting Bracket for Boosters

**Technical Specifications**

120 VAC, 3.8A, 50-60 Hz input  
 Stand by Current Draw: 120mA, per amplifier board  
 Alarm Current Draw: 9 Amps, per amplifier board  
 Frequency Response: **Voice:** 400 Hz – 6.5 kHz ± 3 dB  
**BGM:** 275 Hz - 15 kHz ± 3 dB  
 Power Limited Circuitry  
 Class D Amplifier  
 Internal battery charger and power supply  
 Removable quick connect/disconnect terminals, accept 12-22 AWG  
 Multiple LED's for easy indication of system diagram conditions

**Mechanical Specifications**

Dimensions 21" H x 16" W x 6" D (wall mount)  
 Weight 36 lbs. (without batteries)  
 Finish Red metal enclosure with key lock  
 Required batteries fit in the enclosure



**Description:**

Supervised 2-Zone Class A or 4-Zone Class B Speaker Audio Splitter for the SP40/2, SPB-80/4, SPB-160 or SPB-320.

**Features:**

**Approvals and Compliance**

- UL Standard 864 and California State Fire Marshal (CSFM), New York City (MEA)
- OSHA 1910.165 and ADA Compliant
- In Class A, expand 1 to 2 zones
- In Class B, expand 1 zone up to 4 zones
- Operates on either 25 V or 70.7 V RMS
- Mounts inside the enclosure of either the SP40/2, SPB-80/4, SPB-160 or SPB-320
- Space provided to allow for naming of the zones

**Technical/Electrical Specifications:**

- Power and Trouble LED's
- Individual zone short and open LED indication
- Capable of detecting wiring faults
- Removable wiring terminals for quick connect/disconnect accepting 12-22 AWG
- All output circuitry is Power Limited
- Operates on 24 VDC, supplied by either the SP40/2, SPB-80/4, SPB-160 or SPB-320
- 40 watts per zone in Class A
- 20 watts per zone in Class B

**Specification and Ordering Information:**

Model Number	Order Code	Description
SP4Z-A/B	9900	Supervised 2-Zone Class A or 4-Zone Class B Speaker Audio Splitter for the SP40/2, SPB-80/4, SPB-160 or the SPB-320
SPMB4Z	9907	Mounting Bracket for the SP4Z-A/B or SP4-APS is required when used with the SPB-80/4, SPB-160 or the SPB-320



**SP4Z-A/B**

### Description:

Addressable Paging Splitter and Telephone Zone Controller for use with the SAFEPATH<sup>®</sup>4.

### Applications:

- Connects to the SP40/2 to control selectable paging and background music (BGM)
- Ability to access individual or multiple speaker zones throughout the SP40/2 system via the telephone

### Features:

- Allows selections of speaker zones via the telephone keypad (DTMF tones)
- One SP4-TZC (controller) can control up to 17 SP4-APS (splitters)
- Telephone page input connects to stand alone telephone, unused CO port, page port
- USB connection for logical zone grouping and BGM programming (supports Windows 2000 and Windows XP)
- Up to 8 logical zones (a logical zone is a user selected group of up to 5: zones individual or fixed)
- RS-485 digital control to the SP4-APS speaker splitters
- Connects to the SP40/2 via the BGM input
- The combination of 1 SP4-TZC (controller) and up to 17 SP4-APS (splitters) can provide:

#### Class B

4 zones per splitter  
Up to 68 individual zones (17 splitters)  
17 fixed zones (groups of 4)  
9 logical zones

#### Class A

2 zones per splitter  
Up to 34 individual zones (17 splitters)  
17 fixed zones (groups of 2)  
9 logical zones



**SP4-TZC**



**SP4-APS**

### SP4-TZC Telephone Zone Controller:

- Connects to the SP40/2
- Auto programmable
- Custom user programmable (for logical zones)
- All call or selected zone(s) telephone paging
- Background music (BGM) zone(s) selectable
- Telephone input and background music (BGM) input
- Enclosure for the SP4-TZC (controller):  
Dimensions: 13"H x 7.6"W x 2.15"D  
Color: Black  
Wall mountable
- Requires 24 VDC, model RPS-2406

### SP4-APS Addressable Paging Splitter:

- Addressable speaker zone splitter
- Mounts inside the SP40/2, SPB-80/4, SPB-160 or SPB-320
- Operates on 24 VDC, supplied by the SP40/2, SPB-80/4, SPB-160, SPB-320
- Handles 40 watts of supervised audio per zone
- UL Standard 864 listed

### Specification and Ordering Information:

Model	Order Code	Description
SP4Z-APS	9920	Addressable Paging Splitter
SP4-TZC	9921	Telephone Zone Controller
TZC-USB	9923	SP4-TZC Programming Cable

**Description:**

Supervised Volume Control for use with the SAFEPATH<sup>®</sup>4.

**Applications:**

- Allows manual volume setting for telephone paging and background music for a specific speaker or speaker zone
- The selected adjustment will not affect the volume setting of emergency prerecorded messages or live microphone usage

**Features:**

- Supervised volume control for use with UL Listed Life Safety Applications
- Can handle up to 35 watts of 70.7 volt audio power input
- Adjustment settings: 0 - 10, in 3dB increments
- Operates in Class B or Class A wiring (for Class A, the SP4-APS is required)
- Requires a double gang, 3½" deep back box or 4" square and 1-1/2" deep box with a 1-1/2" extension ring
- Stainless steel mounting plate with a black knob
- UL Standard 864 and California State Fire Marshal (CSFM) listed for use with the SP40/2 or SPB Audio Boosters
- OSHA 1910.165 and ADA compliant
- Maximum RMS current 10.0mA



**SP-SVC**

**Specification and Ordering Information:**

Model	Order Code	Description
SP-SVC	9926	Supervised Volume Control for use with the SP40/2

## SPRM

### Description:

Remote Microphone for use with the SP40/2 Facility Communications System.

### Features:

#### Approvals

- UL Standard 864 and California State Fire Marshal (CSFM)
- OSHA 1910.165 and ADA Compliant

#### Activation

- Supervised hand held push to talk microphone
- Key required to enable remote microphone use (same key as SP40/2)
- When used with the SP40/2, the priority level is 2, the SP40/2 on board microphone is priority 1
- Remote microphone usage disengages background music and general paging

### Technical/Electrical Specifications:

- Voice frequency response: 275 Hz - 6.5 kHz +/- 2.4dB
- Individual front panel LED indication for System Normal, System Trouble, Alarm
- Removable wiring terminals for quick connect/disconnect accepting 12-22 AWG
- 6 wire connection to the SP40/2
- Mounting plate is red and measures, 8 3/4" x 5 1/4", fits into a 4 gang back box
- All output circuitry is Power Limited
- Operates on 24 VDC, supplied by the SP40/2

### Specification and Ordering Information:

Model Number	Order Code	Description
SPRM	8996	Remote Microphone for use with the SP40/2, red plate
SPRM-GP	9927	General Paging Microphone for use with SPB-320, SPB-160 or SPB-80/4, black plate
SP4-RMX	9919	Remote Microphone Expansion Module

## SAFEPATH<sup>®</sup>4 Remote Microphone & Remote Microphone Expansion Module



**SPRM**



**SP4-RMX**

## SP4-RMX

### Description:

Remote Microphone Expansion Module.

### Features:

#### Approvals

- UL Standard 864 and California State Fire Marshal (CSFM)
- OSHA 1910.165, ADA Compliant and UFC Compliant

#### Applications

- Expands one remote microphone (SPRM) from the SP40/2 to three remote microphones
- Two SP4-RMX modules can be cascaded together to provide up to six remote microphones from the SP40/2
- Provides for an auxiliary input for connection of an external VoiceLink message repeater for additional messages

# SAFEPATH® Dual Circuit Supervised Voice/Audio Evacuation & Paging System

## Description:

The DCSP is a supervised dual circuit voice evacuation and general paging system.

## Features:

### Approvals

- UL Standard 864 and California State Fire Marshal (CSFM)
- OSHA 1910.165 and ADA Compliant

### System

- Dual channel; prerecorded messages can be broadcast over two separate zones simultaneously
- Supervised Speaker and Strobe circuits
- 2 amps of 24 VDC synchronized strobe power per circuit
- Live microphone override with on board handheld microphone
- 8-tone tone generator

### Technical/Electrical Specifications:

- Message contacts (maximum of 8)
  - Contact closure/open collector of a transistor
- Notification Appliance Circuit Interface module (NACIM)

### Expansion Capabilities

- Additional SAA amplifier card (SAA-40S, SAA-80S, SALL-15S)
- Remote microphone (RMS-3)
- Auxiliary Input Module (AIM-3)
- Four Zone Audio Splitter (SPL)
- Remote SafePath (RSAPE-R)
  - Can be expandable to 2,560 watts



**Dual Circuit SAFEPATH®**

### Dual Circuit SAFEPATH® Includes

- DCSP-R: Dual Circuit Modules - Red Enclosure
- MDX-2: 2 Channel Digital Voice Output Module
- SMK: Standard Message Kit (8 messages)
- MIC-400: Handheld Microphone
- DCPS: 6 Amp, 25 V Power Supply/Charger
- Choice of 40 watt, 80 watt or Line Level Amplifier
- Enclosure: 21"H x 16"W x 6"D

Note 1: External battery enclosure is required

Note 2: One amplifier is included, additional amplifier may be purchased separately

Note 3: If using strobe output and audio power exceeds 80 watts, consult with technical support for proper layout

## Specification and Ordering Information:

Model Number	Order Code	Description
DCSP-4RP	8954	40 Watt Dual Circuit Packaged SAFEPATH®
DCSP-8RP	8955	80 Watt Dual Circuit Packaged SAFEPATH®
DCSP-15SP	8970	Line Level Output Dual Circuit Packaged SAFEPATH®

### Technical Specifications

- Switch mode Class D 40 or 80 watts or line level
- Speaker outputs 25 V or 70.7 V or line level
- Frequency response 250 - 10kHz
- Meets UL Voice Evacuation requirements of 400 - 4000Hz

### Mechanical Specifications

Dimensions: 21" H x 16" W x 6" D (wall mount)

Weight: 60 lbs. (without batteries)

Finish: Red metal enclosure with key lock

## Description:

The SAPE is a supervised multi circuit voice evacuation and general paging system.

## Features:

### Approvals

- UL Standard 864 and California State Fire Marshal (CSFM)
- OSHA 1910.165 and ADA Compliant

### System

- Four channel; prerecorded messages can be broadcast over four separate zones simultaneously
- Supervised Speaker and Strobe circuits
- 2 amps of 24 VDC synchronized strobe power per circuit
- Live microphone override with on board handheld microphone
- 8-tone tone generator
- **SAPE-1AR** with playback module
- **SAPE-2AR** with message recording and playback module

### Activation

- Message contacts (maximum of 256)
  - Contact closure/open collector of a transistor
- RS-232 or RS-485 interface, message contacts expanded to up to 999
- Notification Appliance Circuit Interface module (NACIM)

### Expansion Capabilities

- Up to four SAA amplifier cards (SAA-40S, SAA-80S, SALL-15S)
- Remote microphone (RMS-1)
- Auxiliary Input Module (AIM-3)
- Four Zone Audio Splitter (SPL)
- Remote SafePath (RSAPE-R)
  - Can be expandable to 5,120 watts



**Multi-Circuit  
SAFEPath®**

### Technical Specifications

- Switch mode Class D 40 or 80 watts or line level
- Speaker outputs 25 V or 70.7 V or line level
- Frequency response 250 - 10kHz
- Meets UL Voice Evacuation requirements of 400 - 4000Hz

Note: Amplifier cards and message kits sold separately

## Specification and Ordering Information:

Model Number	Order Code	Description
SAPE-1AR	5443	Multi-circuit System with DX-100 Playback Module, Red
SAPE-2AR	5445	Multi-circuit System with DX-200 Record & Playback (field programmable) Module, Red
<b>Multi-circuit SAFEPath® Output Channel Kits</b>		
OCK	5057	Output Channel Kit for SAPE-1AR (DX-100) or SAPE-2AR (DX-200)
AM-OCK	5063	After Market Output Channel Kit for SAPE-1AR (DX-100) or SAPE-2AR (DX-200)
<b>Additional Memory</b>		
MEM-1	5054	1 minute of EPROM Memory (2 megs) for SAPE-1AR
MEM-2	5055	2 minutes of PSRAM Memory (4 megs) for SAPE-2AR
AM-MEM-1	5060	After Market 1 minute of EPROM Memory (2 megs)
AM-MEM-2	5061	After Market 2 minutes of PSRAM Memory (4 megs)

### Mechanical Specifications

Dimensions: 36" H x 24" W x 6" D (wall mount)

Weight: 70 lbs. (without batteries)

Finish: Red metal enclosure with key lock



## Description:

The RSAPE is a remote supervised multi circuit voice evacuation and general paging system, used for expansion of the DCSP or SAPE.

## Features:

### Approvals

- UL Standard 864 and California State Fire Marshal (CSFM)
- OSHA 1910.165 and ADA Compliant

### System

- Four channels
- Supervised Speaker and Strobe circuits
- 2 amps of 24 VDC synchronized strobe power per circuit
- Live microphone override with on board handheld microphone

### Activation

- Receives activation signals from the DCSP or the SAPE
- Plays messages from the DCSP or the SAPE

### Expansion Capabilities

- Up to four SAA amplifier cards (SAA-40S, SAA-80S, SAA-15S)
- Remote microphone (RMS-1)
- Auxiliary Input Module (AIM-3)
- Four Zone Audio Splitter (SPL)

## Specification and Ordering Information:

Model Number	Order Code	Description
RSAPE-R	7365	Remote Multi-circuit SAFEPath System, Red



**Remote Circuit  
SAFEPath®**

### Technical Specifications

- Switch mode Class D 40 or 80 watts or line level
- Speaker outputs 25 V or 70.7 V or line level
- Frequency response 250 – 10kHz
- Meets UL Voice Evacuation requirements of 400 – 4000Hz

Note: Amplifier cards sold separately.

### Mechanical Specifications

Dimensions: 36" H x 24" W x 6" D (wall mount)

Weight: 70 lbs. (without batteries)

Finish: Red metal enclosure with key lock

**Description:**

Remote Microphones for use with Dual Circuit, Multi-circuit and Remote SAFEPATH systems.

**RMS-1R and RMS-3R**

**Features:**

**Approvals**

- UL Standard 864 and California State Fire Marshal (CSFM)
- OSHA 1910.165 and ADA Compliant

**System**

- Supervised handheld push to talk microphone
- Key required to enable remote microphone use

**Technical Specifications**

- Frequency response 250-6.5kHz
- Meets UL Voice Evacuation requirements of 400-4000Hz
- Individual front panel LED indication for System Normal, System Trouble, Alarm
- Operates on 24 VDC, supplied by the SAFEPATH<sup>®</sup> panel
- Terminals accept 12-22 AWG
- Measures 8<sup>3</sup>/<sub>4</sub>" x 5<sup>1</sup>/<sub>4</sub>", fits into a 4 gang back box



**RMS-1R**



**RMS-3R**

**Specification and Ordering Information:**

Model Number	Order Code	Description
RMS-3R	7375	Dual Circuit Remote Microphone Station, Red
RMS-1R	5473	Multi-Circuit Remote Microphone Station, Red

**Specifications and Ordering Information:**

<b>Model Number</b>	<b>Order Code</b>	<b>Description</b>
<b>SAFEPATH® Amplifiers</b>		
SAA-40S	5493	40 Watt Supervised Audio Amplifier and 2 Amps of Supervised NAC Strobe Circuit Power Module
SAA-80S	5495	80 Watt Supervised Audio Amplifier and 2 Amps of Supervised NAC Strobe Circuit Power Module
SAA-80SE	5496	80 Watt Supervised Audio Amplifier and 2 Amps of Supervised NAC Strobe Circuit Power Module (E= Export version)
SALL-15S	5497	Supervised Audio Line output module and 2 amps of Supervised NAC Strobe Circuit Power Module
<b>SAFEPATH® Auxillary Input Module, Splitters &amp; Notification Appliance Circuit</b>		
AIM-3	7387	Auxillary Input Module for Telephone System Interface & Multiple Remote Microphones. It allows the number of Remote Microphone Stations to be expanded from one to three or allows the interface of telephone systems for paging and 2 remote mics.
NACIM	5498	Notification Appliance Circuit Interface Module
SPL	7369	Dual or Multi-Circuit Speaker Circuit Splitter (4-way)
<b>Standard Message Kits</b>		
SMK	5082	Standard Message Kit (8 most common messages)
SMK-OSHA	8191	Standard Message Kit for OSHA Applications (8 OSHA related messages)
SMK-SP	8144	Spanish Standard Message Kit (8 most common messages)
SMK-ENGSP	8148	English & Spanish Standard Message Kit (8 most common messages)
AM-SMK	7599	After Market Standard Message Kit (8 most common messages)
AM-SMK-OSHA	8192	After Market Standard Message Kit for OSHA Applications (8 most common messages)
AM-SMK-SP	8117	After Market Spanish Standard Message Kit
AM-SMK-ENGSP	8149	After Market English/Spanish Standard Message Kit
<b>Common Message Kits</b>		
CMK	8193	Common Message Kit, customer choice of any 3 messges from library of 25 commonly used messages as listed on form PMKOF
AM-CMK	8194	After Market Common Message Kit, customer choice of any 3 messages from library of 25 commonly used messages as listed on form PMKOF
<b>Programmed Message Kits</b>		
MDV-PMK	5099	1 minute of factory programmed memory
PMK	5056	Factory Programmed Message Kit
AM-MDV-PMK	5089	After Market MDV Factory Programmed Message Kit
AM-PMK	5062	After Market Factory Programmed Message Kit
AM-TMK	8975	After Market Factory Programmed Message Cassette Tape Kit
<b>Batteries &amp; Battery Cabinets</b>		
BATC-B	5413	Battery Cabinet, Black (9.5"H x 24"W x 9" D)
BATC-R	5414	Battery Cabinet, Red (9.5"H x 24"W x 9" D)
BAT-1212	7390	12 Volt, 12 Ampere Hour Battery Cell
BAT-1224	7391	12 Volt, 24 Ampere Hour Battery Cell
BAT-1265	7392	12 Volt, 65 Ampere Hour Battery Cell

**Specifications and Ordering Information:**

**SMK and AM-SMK Standard Messages in Standard Message Kit**

Message #	Message Script
1	(3 rounds of code 3 horn) "May I have your attention please! A fire emergency has been reported in the building. While this is being verified, please leave the building by the nearest exit. Do not use the elevators."
2	(5 seconds of 1kHz tone) "May I have your attention please! A fire emergency has been reported in the building. While this is being verified, please standby for further instructions."
3	(3 rounds of code 3 horn) "May I have your attention please! An emergency has been reported in the building. Please leave the building by the nearest exit or exit stairway. Do not use the elevators."
4	(3 rounds of code 3 horn) "May I have your attention please! An emergency has been reported in the building. While this is being verified, please leave the building and report to the designated assembly area for your group."
5	(5 seconds of 1kHz tone) "May I have your attention! The National Weather Service has issued a severe weather warning for our area."
6	(5 seconds of 1kHz tone) "This is an audio system test."
7	(5 seconds of 1kHz tone) "May I have your attention please! The building emergency has ended. An all clear has been given. Please resume normal activities."
8	(3 rounds of code 3 horn) "May I have your attention please! A fire emergency has been reported in the building. While this is being verified, please leave the building by the nearest exit."

**SMK-OSHA and AM-SMK-OSHA Standard Messages in OSHA Applications Message Kit**

Message # and Type	Message Script
1 Fire Emergency	(1 round of code 3 horn) "Attention, Attention, a fire emergency has been reported. Please leave the building using the nearest exit."
2 Medical Emergency	(5 seconds slow whoop) "May I have your attention please! A medical emergency has been reported, all EMT personnel report to your assigned stations."
3 Toxic Chemical Release	(5 seconds fast whoop) "Attention, Attention. A toxic chemical release has been reported, all personnel are to report to their designated emergency areas and await further instructions."
4 Tornado Watch	(5 seconds, 1,000hz steady tone) "The National Weather Service has issued a tornado alert for this area, further information will be broadcasted as it becomes available."
5 Flood Watch	(5 second wail) "A flash flood watch has been issued by the local weather service, further information will be broadcasted as it becomes available."
6 All Clear	(5 second chime) "The building emergency has now ended, please resume your normal duties. Thank you for your cooperation."
7 Bomb Threat	(5 second hi-lo) "Attention, Attention, a bomb threat alert has been issued for this building, all personnel are to evacuate immediately using the nearest exit. Further instructions will be issued outside the building by emergency response teams."
8 Terrorist Threat	(5 seconds fast whoop) "May I have your attention please, a terrorist threat has been received. Effective immediately we are operating "secure and lockdown procedures. All personnel should remain calm and stay where you are. Emergency response teams are active within the building. Please await further instructions."

- Custom programmed messages and or tones are available
- All messages are available in both male or female voice. Male voice will be assumed unless otherwise specified
- Contact customer service for additional information and Wheelock form PMKOF

## Description:

VoiceLink is a digital multi-messaging system designed to automatically deliver instant real voice custom prerecorded messages. VoiceLink can provide specific information such as emergency or special announcements, instructions, directions, or advertisements. VoiceLink systems have a line level output for connection to PA systems.

## Features:

### Approvals

- UL Standard 864, California State Fire Marshal (CSFM), ULC, New York City (MEA), FCC
- OSHA 1910.165 and ADA Compliant

### General

- Up to 5 levels of priority can be programmed
- Connectable to any paging system, telephone dial-out system, pagers, or two-way radios
- Operates on any regulated and filtered 11-29 VDC power supply (Wheelock RPS-2406)
- Announcements can be activated via contact closure or open collector of a transistor

### MDV-2 Two channel multi-message playback system

- One channel standard, expandable to 2 channels by utilizing an additional module AM-MDV-OCM
- 8 message file contacts
- 1 minute of digital EPROM memory, expandable to 2 minutes utilizing an additional module MDV-PMK
- Voice messaging system for DCSP SAFEPATH® Voice Evacuation System

### DV-100 Four Channel multi-message playback system

- One channel standard, expandable to 4 channels by utilizing OCK or AM-OCK modules
- 8 message file contacts, expandable up to 256 message contacts utilizing DV-EM expansion modules
- Up to 999 files can be accessed via RS-232 or RS-485 activation
- 1 minute of digital EPROM memory, expandable to up to 8 minutes utilizing additional modules PMK
- Voice messaging system for SAPE-1 AR SAFEPATH® Voice Evacuation System



MDV-2



DV-200

### DV-200 Field Programmable Four Channel multi-message record and playback system

- One channel standard, expandable to 2 channels by utilizing OCK or AM-OCK modules
- 8 message file contacts, expandable up to 256 message contacts utilizing DV-EM expansion modules
- Up to 999 files can be accessed via RS-232 or RS-485 activation
- 2 minutes of digital PSRAM memory, expandable to up to 16 minutes utilizing additional MEM-2 modules
- Voice messaging system for SAPE-2AR SAFEPATH® Voice Evacuation System

#### Audio/Technical Specifications

Output: 600 ohms

Frequency

Response: 70-3kHz

#### Mechanical Specifications

Wall mountable black enclosure

MDV-2: 13"H x 8"W x 2"D

DV-100: 14"H x 12"W x 2"D

DV-200: 18"H x 18"W x 3"D

## Specification and Ordering Information:

Model Number	Order Code	Description
<b>SAFEPATH® Systems utilize VoiceLink modules denoted by model numbers</b>		
MDV-2	5093	2 Channel, multi-message playback system (used in Dual Circuit <b>SAFEPATH®</b> systems - MDX-2)
DV-100	5051	4 Channel, multi-message playback system (used in Multi-Circuit <b>SAFEPATH®</b> systems - DX-100)
DV-200	5052	4 Channel, multi-message playback/record system (used in Multi-Circuit <b>SAFEPATH®</b> systems - DX-200)

## Typical Applications using VoiceLink Systems:

- Emergency Announcements or Fire Alarm Voice Evacuation Messages can be automatically broadcast through the fire alarm voice system for immediate evacuation and safety
- Manufacturing and process control equipment can be monitored and instant message can be sent to the supervisor via voice paging, two-way radio or pager in the event of a malfunction.
- Alert emergency brigades to respond quickly in case of employee accidents.
- Automatically warn employees or visitors of hazardous or restricted access areas.
- Notification of customer assistance in retail store applications.
- Intelligible Nurse Call reporting, Code Blue.

VoiceLink systems can be used in these applications as well:

Automatic Paging  
Restricted Access Notification  
Arrival & Departure Announcement  
Emergency Assistance  
Informing of Special Events  
Directory Assistance  
Airport trams/luggage carousels  
Workforce Shift and Break Notice  
Classroom Changes  
Security Reporting  
Area Restriction Warning  
Inmate Control, Man Down Systems  
Elevator Floor Annunciation  
Route and Delay Notification  
In Store Sales Announcements

## Specification and Ordering Information:

Model Number	Order Code	Description
<b>Expansion Modules, Memory and Programming Accessories</b>		
DV-EM	5053	32 Input Expansion Module-maximum of 8 per system Enclosure: 12" H x 6" W x 2" D
CAB-EM	5066	Expansion cable for connecting a DV-100 or DV-200 to the first DV-EM
CAB-P	5067	Programming Cable or DV-100 from DV-200
MEM-1	5054	1 minute of EPROM memory (2 megs), For DV-100, used for the SAPE-1AR
MEM-2	5055	2 minutes of PSRAM memory (4 megs), For DV-200, used for the SAPE-2AR
AM-MEM-1	5060	After Market 1 minute of EPROM memory, For DV-100, SAPE-1AR
AM-MEM-2	5061	After Market 2 minutes of PSRAM memory For DV-200, SAPE-2AR
BAT	5069	Spare battery pack for memory retention For DV-200, SAPE-2AR
MIC	5068	Replacement Programming Microphone For DV-200
<b>Output Channel Kits, End of Line Resistors and Power Supply</b>		
OCK	5057	Output Channel Kit - first channel supplied with system (maximum of 4 OCK's per system) For DV-100, DX-100, DV-200, DX-200
AM-OCK	5063	After Market Output Channel Kit For DV-100, DX-100, DV-200, DX-200
AM-MDV-OCM	5097	After Market MDV Output Channel Module - required for 2nd output channel on the MDV-2
EOLK	5076	Endl of line resistor kit (8 UL Listed end of line resistors)
EOLK-EM	5077	End of line resistor kit for DV-EM expansion module (32 UL Listed end of line resistors)
RPS-2406	3770	24 VDC power supply (for non-UL-Fire applications)
<b>Programmed Message Kits</b>		
MDV-PMK	5099	1 minute of factory programmed memory
PMK	5056	Factory Programmed Message Kit
AM-MDV-PMK	5089	After Market MDV Factory Programmed Message Kit
AM-PMK	5062	After Market Factory Programmed Message Kit



## Description:

Multipurpose push stations for manual activation of **SAFEPATH®** and **SAFEPATH®4** Voice Evacuation Systems prerecorded messages. Can be used to manually activate a message in the event of an emergency or for alerting. These multipurpose push stations are for applications that need Normally Open or Normally Closed contacts.

## Features:

- Approvals Include: UL Standard S7255 switch assembly
- Available in five colors: Red, Green, Yellow, White, or Blue
- Custom wording available
- Polycarbonate faceplate
- Stainless steel backplate
- ADA Compliant
- Mounts to single gang electrical box
- Single pole, single throw terminal block rated for 3 amps @ 600 VDC or 1 Amp @ 250 VDC
- Can be reset by depressing the "Push" button, and turning clockwise ¼ turn



**NPS Push  
Stations**

## Specification and Ordering Information:

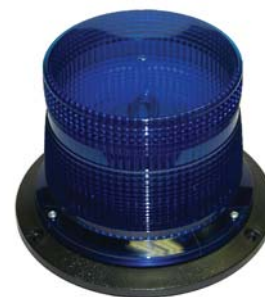
Model Number	Order Code	Color	Description	Wording	Model Code Suffix	Wording	Model Code Suffix
NPS-R	9767	Red	Push Station for manual message activation	Land Attack	-001	Emergencia	-026
NPS-G	9768	Green	Push Station for manual message activation	Sea Attack	-002	Alarm Yellow	-027
NPS-Y	9769	Yellow	Push Station for manual message activation	Colors	-003	Delta	-028
NPS-W	9770	White	Push Station for manual message activation	Low Threat	-004	Alarm Red	-029
NPS-B	9771	Blue	Push Station for manual message activation	Medium Threat	-005	Withdrawal	-030
NPS-NO	0523		Push Station Normally Open Contact	High Threat	-006	Emergency	-031
NPS-NC	0524		Push Station Normally Closed Contact	Small Craft	-007	Audio Test	-032
<b>Wording Matrix for top of the Push Station</b> Any "wording suffix" can be printed on any color push station. Examples: 9767-003      NPS-R-003      Red Push Station, Colors 9771-010      NPS-B-010      Blue Push Station, Low  <b>Note:</b> Custom wording is available, please contact customer service.				Unknown Object	-008	All Clear	-033
				Code Bravo	-009	Fire Test	-034
				Low	-010	Evac Drill	-035
				Medium	-011	Weather	-036
				High	-012	Chem-Bio	-037
				Water Attack	-013	Suspicious	-038
				Chemical Spill	-014	Fire*	-039
				Gas Release	-015	All	-040
				Evacuation	-016	Bomb	-041
				Help	-017	Test	-042
				Assistance	-018	Area	-043
				Severe Weather	-019	Bomb Threat	-044
				Tornado	-020	Terrorist Threat	-045
				Medical Alert	-021	Toxic Chemical	-046
				Power Shut Down	-022	Disaster	-047
				Blank/No Wording	-023	*For Non UL Life Safety Applications	
				Strobe	-024		
				Alert	-025		

### Description:

High Intensity, weather-resistant visible warning signals, designed for stationary or mobile use. Applications for Series MAX strobes include hazard warning/alerting, industrial visual signaling, strobe beacons for vehicles or equipment, process control area notification, access gate/loading dock identification, and outdoor emergency strobe. Applications for Strobe and Steady Light Models include location of specific equipment, eye wash station/emergency medical kit location, emergency phone location, warning lights and security alert indication.

### Features:

- UL Standard 1638 Listed for indoor or outdoor use
- AC-MAX and AC-MAXS models are for 120 VAC applications
- DC-MAX and DC-MAXS models are for DC applications DC voltage range: 10.5 VDC to 31.0 VDC
- Powerful double flash light burst
- 60 double flashes per minute
- Available lens colors per SAE specifications: Amber, Blue, Clear, Red
- Durable, high impact Lexan<sup>®</sup> lens construction
- Mounting options: 1/2 inch pipe, surface mount, flange mount, standard 4-inch square electrical box or Wheelock WBB Weather Resistant Backbox (order code 2959)
- Overall height: 5 inches
- Diameter: 6.2 inches
- Weight: 2 lbs.



**Series AC-MAX-B**

### Features for Steady Light Models (MAXS):

- Two 7 watt incandescent lamps
- Independent wiring for electrical hookup

### Specification and Ordering Information

Model Number	Order Code	Lens Color	Voltage	Product Description	Effective Candela (cd)
AC-MAX-A	8120	Amber	120 VAC	Double Flash MAX Strobe	80
AC-MAX-B	8121	Blue	120 VAC	Double Flash MAX Strobe	12
AC-MAX-C	8122	Clear	120 VAC	Double Flash MAX Strobe	100
AC-MAX-R	8124	Red	120 VAC	Double Flash MAX Strobe	20
AC-MAXS-A	8125	Amber	120 VAC	Double Flash MAX Strobe w/ two 7 watt steady light lamps	80
AC-MAXS-B	8126	Blue	120 VAC	Double Flash MAX Strobe w/ two 7 watt steady light lamps	12
AC-MAXS-C	8127	Clear	120 VAC	Double Flash MAX Strobe w/ two 7 watt steady light lamps	100
AC-MAXS-R	8129	Red	120 VAC	Double Flash MAX Strobe w/ two 7 watt steady light lamps	20
DC-MAX-A	8130	Amber	10.5-31.0 VDC	Double Flash MAX Strobe	80
DC-MAX-B	8131	Blue	10.5-31.0 VDC	Double Flash MAX Strobe	12
DC-MAX-C	8132	Clear	10.5-31.0 VDC	Double Flash MAX Strobe	100
DC-MAX-R	8134	Red	10.5-31.0 VDC	Double Flash MAX Strobe	20
DC-MAXS-A	8135	Amber	10.5-31.0 VDC	Double Flash MAX Strobe w/ two 7 watt steady light lamps	80
DC-MAXS-B	8136	Blue	10.5-31.0 VDC	Double Flash MAX Strobe w/ two 7 watt steady light lamps	12
DC-MAXS-C	8137	Clear	10.5-31.0 VDC	Double Flash MAX Strobe w/ two 7 watt steady light lamps	100
DC-MAXS-R	8139	Red	10.5-31.0 VDC	Double Flash MAX Strobe w/ two 7 watt steady light lamps	20

Model	Current Draw
AC-MAX and AC-MAXS	0.20 @ 120 VAC
DC-MAX and DC-MAXS	1227 mA @ 10.5 VDC
	1010 mA @ 12 VDC
	470 mA @ 24 VDC
	344 mA @ 31 VDC
Steady Light Lamps Current Draw	
AC-MAXS Models	120 mA
DC-MAXS Models	665 mA

### DC Inrush Current Draw:

12V	5A Max
24V	10A Max
31V	12A Max

### Note:

Series MAX Strobes are not intended for use in wash down areas.

## Description:

Wheelock's Series MT and MT Strobe Multitone electronic signals offer a choice of eight (8) alerting sounds: Horn, Bell, March Time Horn, Code-3 Tone, Code-3 Horn, Slow Whoop, Siren or Hi/Lo Tone. One alarm appliance can provide superior sound penetration for various ambient and room conditions with two field selectable sound output levels.

## Features:

- UL Standard 464, 1638 and 1971 Listed
- 12 VDC and 24 VDC and 115 VAC models available
- Low cost and easy installation via standard electrical boxes. Attractive flush or surface mounting options
- No additional trimplate required for flush mounting. Easy installation with screw terminals accepting #12 to #18 AWG wire
- Strobe models available with 15 candela rating for independent or single input activation
- Audible and strobe can operate from a single signaling circuit with any of the (8) audible alerting sounds
- White Plate



**Series MT-121575W-NW  
MTWP-2475W-FW**



**Series MT4-115-WH-VNS**

## Specification and Ordering Information

Model Number	Order Code	Input Voltage	Rated Candela	Mounting Options#	Agency Approvals				
					UL	MEA	CSFM	FM	BFP
MT-12/24-W	5024	12/24 VDC	-	D,E,F,G,L,M,O,R	X	X	X	X	X
MT4-115-S	6142	115 VAC	-	D,E,J,K,N,O,R	X	X	X	X	X
MT-121575W-NW	9747	12 VDC	15 (75 on Axis)	D,E,F,G,L,M,O,R	X	X	X	X	*
MTWP-2475W-NW	9744	24 VDC	75	M	X	X	X	X	*
MT4-115-WH-VNS	6143	115 VAC	15	D,E,J,K,N,O,R	X	X	X	X	X
MT-24MCW-NW	3305	24 VDC	15/30/75/110	D,E,F,L,M,O,P,R	X	*	X	*	*

#See mounting options pull out guide in the last section of this binder.

X = Approved

\* = Pending

## dBA and Current Ratings for Multitone Audible Portion

Tone	Average Current Ratings (AMPS)				dBA Reverberant Ratings Per UL 464				dBA Anechoic Ratings	
	@ 24 VDC		@ 12 VDC		@ 24 VDC		@ 12 VDC		@ 12 and 24 VDC	
	HI	STD	HI	STD	HI	STD	HI	STD	HI	STD
Horn	0.038	0.024	0.095	0.019	92	87	90	77	99	93
Bell	0.019	0.012	0.030	0.010	86	80	85	69	92	87
March Time Horn	0.038	0.024	0.095	0.019	89	84	89	74	99	93
Code-3 Horn	0.038	0.024	0.095	0.019	88	83	88	73	99	93
Code-3 Tone	0.027	0.016	0.057	0.014	85	80	84	70	95	90
Slow Whoop	0.047	0.025	0.095	0.024	90	89	89	75	99	94
Siren	0.034	0.022	0.078	0.019	89	84	89	75	98	93
Hi/Lo	0.020	0.013	0.042	0.011	86	81	86	71	93	88

Tone	Pattern Description	Tone	Pattern Description
Horn	Broadband Horn (Continuous)	Code-3 Tone	500 Hz (ANSI S3.41 Temporal Pattern)
Bell	1650 Hz Modulated (0.7 sec. On/Repeat)	Slow Whoop	500-1200 Hz Sweep (4.0 On/0.5 sec. Off/Repeat)
March Time Horn	Horn (0.25 sec. On/0.25 sec. Off/Repeat)	Siren	600-1200 Sweep (1.0 sec. On/Repeat)
Code-3 Horn	Hornh (ANSI S3.41 Temporal Pattern)	Hi/Lo	1000/800 Hz (0.25 sec. On/Alternate)

All MT and MT4 strobe models for outdoor use are Listed for -31°F to 150°F (-35°C to 66°C) and maximum humidity of 95% RH.

02/05

## Series WH Remote Strobes

### Description:

The Series WH remote strobes feature a xenon flashtube housed in a polycarbonate lens. They deliver a high intensity flash and can be used to provide visual alerts for personnel or visitors in the workplace

### Features:

- UL 1638 Listed
- Models available in 115 VAC
- WH1T flush mounts to single gang backbox
- WH3T surface mounts to 4" square backbox or WBB back box for outdoor use



**Series WH3T**



**Series WH1T**

### Specification and Ordering Information

Model Number	Order Code	Voltage	Strobe Candela	Current Draw	Mounting Options
WH1T-115-NS	3515	115 VAC	15	0.06	B
WH3T-115-NS	3563	115 VAC	15	0.06	K, N

### Description:

The Series MTH-24 Multi-Tone Horn is a loud, weather resistant, attention getting alert designed for use in noisy or large locations where two different audible signals are required at one location for easy identification of the alert signal.

### Features:

- Functions as a telephone extension alert using a pulsed warble tone activated by the telephone systems interrupted or continuous dry contact closure
- Functions as an auxiliary alert using a steady tone which follows the contact closure of a door service push-button, time clock, alarm systems, etc.
- When both alerting tones are activated, the steady tone will take priority over the warble tone
- Built in 10-watt amplifier, electronic dual tone generator (steady or warble), timer for the warble circuit, and volume control
- 117 dBA @ 1 meter
- Includes RPS-2406, 24 VDC, 600 mA power supply
- Universal mounting bracket
- If an analog ring voltage (direct telephone line or PABX extension) is present, use the CRT-T-40 telephone relay to develop a dry contact for controlling the Series MTH-24 Multitone Horn
- The recommended replacement of the Series 163 telephone signaling package is as follows:
  - MTH-24
  - CRT-T-40

## MTH-24 Multitone Horn



**Series MTH-24**

### Specification and Ordering Information

Model Number	Order Code	Nominal Operating Voltage	Max. Operating Current @ 24 VDC	Type	dBA @ 1 meter
MTH-24	3801	24 VDC	600mA	Weatherproof for Indoor and or Outdoor Installation	117

### Description:

Wheelock's Series AMT Multiple Input Electronic Signals provide a combination audible/visual device that simplifies installation and offers three (3) distinct prioritized audible signals from three isolated inputs. Priority one (1) will override all other commands upon activation. The AMT offers a choice of nine (9) self-prioritized sound combinations for suppression releasing systems, combination security and OSHA emergency evacuation systems and high risk installations as well as many other industrial applications.

### Features:

- UL Standard 464 and 1971 Listed
- Three separate prioritized inputs that will activate three isolated signals
- Two field selectable sound output levels
- Low current draw with low temperature compensation to reduce power consumption and wiring costs
- Combination audible/visual model with 15 candela strobe
- Low cost installation via standard electrical boxes
- White plate



**Series AMT-241575W-NW**

### Specification and Ordering Information

Model Number	Order Code	Input Voltage	Rated Candela	Mounting Options#	Agency Approvals				
					UL	MEA	CSFM	FM	BFP
AMT-12/24-W	5893	12/24 VDC	N/A	E,F,L,M,O,P	X	X	X	X	X
AMT-241575W-NW	3047	24 VDC	15	E,F,L,M,O,P	X	X	X	X	*

#See mounting options pull out guide in the last section of this binder.

X = Approved

\* = Pending

Current Ratings for AMT Multitone Audible Signals						AMT dBA Ratings		AMT w/ Strobe	
Tone	Tone Description	Rated Average Current (AMPS)		Rated Average Current (AMPS)		Typical Anechoic dBA @ 10 Feet at Nominal		Typical Anechoic dBA @ 10 Feet at Nominal	
		24 VDC		12 VDC		Input Voltage		Input Voltage	
		HI dBA	STD dBA	HI dBA	STD dBA	HI	STD	HI	STD
Horn	Broadcast Horn (Continuous)	0.048	0.026	0.100	0.020	98	92	97	91
Bell	1560 Hz Modulated (0.07 Sec. ON/Repeat)	0.019	0.015	0.031	0.010	91	86	89	84
March Time Horn	Horn (0.25 Sec. ON/0.25 Sec. OFF/Repeat)	0.048	0.026	0.100	0.020	98	91	97	91
Code-3 Horn	Horn (ANSI S3.41 Temporal Pattern)	0.048	0.026	0.100	0.020	98	92	97	91
Code-3 Tone	500Hz (ANSI S3.41 Temporal Pattern)	0.028	0.015	0.060	0.015	94	89	93	88
Slow Whoop	500-1200Hz Sweep (4.0 Sec. ON/0.05 Sec. OFF/Repeat)	0.045	0.026	0.100	0.025	98	93	97	92
Siren	600-1200Hz Sweep (1.0 Sec. ON/Repeat)	0.039	0.020	0.082	0.020	97	92	96	91
Hi/Lo	1000-800Hz (0.25 Sec. ON/Alternate)	0.023	0.017	0.044	0.013	92	87	91	86
Vibrating Chime	700Hz (1.0 Sec Delay/Repeat)	.014	0.011	0.027	0.010	88	82	87	81

**Description:**

Wheelock's bells offer low power consumption with high sound. Various models are available to accommodate different applications and voltage requirements.

**Features:**

- Approvals: UL Standard 464 Listed, Factory Mutual (FM), California State Fire Marshal (CSFM), New York (MEA) and Chicago (BFP)
- Weatherproof design (WBB backbox required - Order Code 2411)
- Aluminum bell housing
- Integral RFI suppression
- Screw terminal connections

**Series 43T AC Vibrating Bells**

- Solenoid driven
- Applications: Alarms, Doorbells, Gates

**Series MB DC Vibrating Motor Bells**

- Motor Driven
- Applications: Alarms, Doorbells, Gates



**Specification and Ordering Information**

Model Number	Order Code	Applications	Shell Size	Input Voltage	Input Current	dBA @ 10 Feet	Mounting Options#	Agency Approvals				
AC Vibrating Bells (Solenoid Driven)								UL	MEA	CSFM	FM	BFP
43T-G6-24-S	1626	Alarms Doorbells Gates	6"	24 VAC	.410	86	D,E,J,K,R,S,Z	X	X	X	X	X
43T-G6-115-S	1630		6"	115 VAC	.085	86		X	X	X	X	X
43T-G10-24-S	3800		10"	24 VAC	.410	88		X	X	X	X	X
43T-G10-115-S	3693		10"	115 VAC	.085	88		X	X	X	X	X
DC Vibrating Bells												
MB-G6-12-S	4221	Alarms Doorbells Gates	6"	12 VDC	.060	92	D,E,J,K,R,S,Z	X	X	X	X	X
MB-G6-24-S	4222		6"	24 VDC	.030	92		X	X	X	X	X
MB-G10-12-S	4223		10"	12 VDC	.060	92		X	X	X	X	X
MB-G10-24-S	4224		10"	24 VDC	.030	92		X	X	X	X	X
MB-G6-6-R	4884	Elevators	6"	6 VDC	.090	90		X	X	X	X	X

#See mounting options pull out guide in the last section of this binder.

X = Approved

\* = Pending



## Series CVX/CSX Explosion-Proof Bells

### Description:

Wheelock's Series CVX/CSX Explosion Proof Bells are rugged and reliable for performance in hazardous environments. These bells are Listed for Division One Applications – which means that they are designed to operate safely in atmospheres that actually contain explosive elements in free form (in contrast with Division Two environments, wherein the explosive elements are stored and protected).

### Features:

- Approvals include: UL Standard, New York (MEA) and California State Fire Marshal (CSFM)
- Rugged cast mechanism enclosure with hinged cover
- Available in single stroke and vibrating models
- High sound output
- Outdoor models include protective hood and guard



**Series CVXG10/CSXG10**

### Specification and Ordering Information

Vibrating								
Indoor Model Number	Order Code	Outdoor Model Number	Order Code	Shell Size	Input Volt.	Input Current	dBA @10 Ft.	Mounting Options
CVX10-115-S	0132	CVXG10-115-S	0134	10"	115VAC	0.220	90	See Note 1
Single Stroke								
Indoor Model Number	Order Code	Outdoor Model Number	Order Code	Shell Size	Input Volt.	Input Current	dBA @10 Ft.	Mounting Options
CSX10-115-S	0166	CSXG10-115-S	0167	10"	115VAC	0.125	87	See Note 1
CSX10-24-S	0164	CSXG10-24-S	0196	10"	24VDC	0.500	87	See Note 1

Class	Group	Contents of Hazardous Atmosphere
I	B	Hydrogen or Gases & Vapors of equivalent hazard such as manufactured gas
I	C	Ethyl & Ether Vapors
I	D	Gasoline, Petroleum, Naphtha, Alcohol, Acetone, Benzene, Lacquer Solvent, Vapors, Natural Gas
II	F	Carbon Black, Coal, Coke Dust
II	G	Flour, Starch, Grain Dusts

Notes: 1. All models include integral cast backbox for surface mounting with ½" threaded conduit entrances on top and bottom of housing.

### Description:

Wheelock's 31T-115-S Horn is a high performance horn. It is an ideal alarm appliance for industrial signaling applications where high sound output, low current draw, and dependable operation are of critical concern.

The 31T-115-S offers rugged, vandal resistant construction with die cast metal housings for the horn mechanism.

### Features

- Approvals include: UL Standard, New York (MEA) and California State Fire Marshal (CSFM)
- Resonant grille design for high sound output with low current draw
- Fully factory assembled to save installation time
- Screw terminal inputs for fast and secure in-out field wiring
- Indoor or outdoor mounting options for semi-flush or surface mounting
- Attractive Grey textured finish enhances appearance



**Series 31T-115-S**

### Specification and Ordering Information

Model Number	Order Code	Input Voltage	Rated Current	dBA @ 10 Feet	Mounting Options
31T-115-S	0521	115 VAC	0.160	95	D,E,J,K,O,R,Z

NOTES: 1. Typical dBA at 10 feet is measured in an anechoic chamber.  
2. Refer to most current installation instructions.

## Series 31T-115S Horn

### Description:

Wheelock's colored lens strobe products are available on Series RSS strobes and Series E speaker/strobes in amber, blue, green or red lens colors. These products are not Listed for fire alarm use, but they are built with the same high quality circuits and parts used in Wheelock's life safety strobes and speakers. They are designed for indoor use and can be either wall or ceiling mounted to standard electrical boxes or to Wheelock's surface mount boxes.

### Features:

- Choice of four strobe lens colors with wide range of intensity options
- Wide operating voltage range
- Strobes can be synchronized with Wheelock's SM or DSM sync modules or **POWERPATH™** power supplies
- Combination speaker/strobes available for voice messages with visual alerting
- Mount to standard electrical boxes
- High quality designs from the leader in fire notification alarms



**Series RSS**

### Applications:

Wheelock's colored lens strobe products are designed for effective alerting of employees or personnel in industrial, military or government applications. They are ideal for Mass Notification systems and for emergency, warning or trouble notification in many industrial operations.

### Specification and Ordering Information

MODEL NUMBER	ORDER CODE	LENS COLOR	STROBE CANDELA	MOUNTING OPTIONS	STROBE VOLTAGE	STROBE CURRENT (RMS)	AGENCY APPROVALS
			note 1	note 2	note 3	16 vdc 24 vdc	
RSSA-24110W-NW	0103	AMBER	110	wall or ceiling	24 vdc	0.300 0.195	none
RSSB-24110W-NW	0100	BLUE	110	wall or ceiling	24 vdc	0.300 0.195	none
RSSG-24110W-NW	0099	GREEN	110	wall or ceiling	24 vdc	0.300 0.195	none
RSSA-24MCC-NW	0202	AMBER	MCC	wall or ceiling	24 vdc	note 4	none
RSSB-24MCC-NW	0203	BLUE	MCC	wall or ceiling	24 vdc	note 4	none
RSSG-24MCC-NW	0204	GREEN	MCC	wall or ceiling	24 vdc	note 4	none
RSSR-24110C-NW	3111	RED	110	wall or ceiling	24 vdc	0.420 0.37	UL1638
RSSR-2475C-NW	3032	RED	75	wall or ceiling	24 vdc	0.315 0.200	UL1638
E70A-24110W-NW	0207	AMBER	110	wall or ceiling	24 vdc	0.300 0.195	none
E70B-24110W-NW	0208	BLUE	110	wall or ceiling	24 vdc	0.300 0.195	none
E70A-24MCC-NW	0209	AMBER	MCC	wall or ceiling	24 vdc	note 4	none
E70B-24MCC-NW	0210	BLUE	MCC	wall or ceiling	24 vdc	note 4	none
E90A-24110W-NW	0211	AMBER	110	ceiling	24 vdc	0.300 0.195	none
E90B-24110W-NW	0212	BLUE	110	ceiling	24 vdc	0.300 0.195	none
E90A-24MCC-NW	0213	AMBER	MCC	ceiling	24 vdc	note 4	none
E90B-24MCC-NW	0214	BLUE	MCC	ceiling	24 vdc	note 4	none

1. Candela is measured on axis per UL1638. Models with MCC strobes have 4 field-selectable candela settings. MCC settings are rated for clear lens - derate approximately 25% for amber, 55% for green and 70% for blue lenses.				
2. Backboxes (ordered separately):				
Series	flush	surface		
RSS	4" x 1-1/2", 1-gang or 2-gang box	SHBB-W		
E70	4" x 2-1/8" w ith extension ring	SBB-W		
E90	4" x 2-1/8" w ith extension ring	na		
3. All strobes operate from 16 to 33 volts at 1 flash/second using filtered or full-wave-rectified DC voltage. (See Installation Instructions)				
4. Strobe current for MCC strobes:				
MCC setting	15	30	75	95
current @ 16 vdc	0.065	0.105	0.189	0.249
current @ 24 vdc	0.045	0.070	0.119	0.159

### Description:

Wheelock Universal Indoor/Outdoor Telephone Alerts: UTA-1 and UTA-WH-VPS are loud attention getting electronic ringers designed for use in noisy locations or for wide area coverage. The UTA-1 operates off the telephone ringer voltage. The UTA-WH-VPS requires 115 VAC and telephone ring trigger voltage for activation of the strobe and ringer.

### Features:

#### UTA-1 and UTA-WH-VPS

- Approvals Include: UL Standard 1950 approved
- ADA Compliant
- Choice of four selectable sound patterns: Horn, Bell, Vibrating Chime, Single Chime
- Choice of four operating voltages: 24VDC, 24VAC, 48VDC, 90Vrms/20-30Hz
- High output 109 dB piezo speaker
- Low current draw and REN
- Tamper resistant volume control
- Dip switch selectable
- Equipped with a weather resistant backbox for optional outdoor use with conduit-enclosed wiring
- Complies with: FCC part 68, CSA C22.2, IC C5-03

#### UTA-WH-VPS Universal Telephone Alert with Strobe

- Includes a high intensity 15 candela flashing strobe for visual signaling
- Equipped with a weather resistant backbox for optional outdoor use with conduit-enclosed wiring
- Requires 115 VAC power for strobe and piezo operation, and telephone ring trigger voltage for activation - Line cord purchased separately



**Series UTA-WH-VPS**



**Series UTA-1**

### Applications:

Offices of all types  
Manufacturing Plants  
Machine shops  
Factories  
Construction sites  
Shipping Yards  
Processing Plants  
Warehouses

### Specification and Ordering Information

Model Number	Order Code	Description	Power Requirements
UTA-1	6338	Universal Telephone Alert	24 VDC, 24 VAC, 48 VDC, 90 VRMS/20-30Hz
UTA-WH-VPS	6348	Universal Telephone Alert w/ Strobe	Requires 115 VAC power for strobe and piezo operation, and telephone ring trigger voltage for activation via 24VDC, 24VAC, 48VDC, 90VRMS/20-30Hz (Line cord purchased separately)

### Tone Volume Range and Description

Note: Not intended for wash down areas.

Horn	82-109 dB	Broadband Horn
Bell	76-104 dB	1560 Hz Modulated (0.07 Sec. ON/Repeat)
Vibrating Chime	68-94 dB	700 Hz (1.0 Sec. Decay/Repeat)
Single Chime	68-94 dB	700 Hz (1.0 Sec. Decay)

Model Number	Tones	dB @ 3 Feet (1 meter)				Ring Voltage Current Draw mA			REN
		48 VDC	24 VDC	24 VAC	90 VRMS 20 Hz	48 VDC	24 VDC	24 VAC	90 VRMS 20 Hz
UTA-1	Horn	107	108	105	104	26	30	46	1.6
	Bell	100	100	102	100	10	9	39	1.4
	Vibrating Chime	94	96	99	97	7	6	29	1.25
	Single Chime	94	96	100	96	6	6	34	1.25
UTA-WH-VPS	Horn	109	109	109	109	3	2.5	4	.6
	Bell	104	104	104	104	3	2.5	4	.6
	Vibrating Chime	94	94	94	94	3	2.5	4	.6
	Single Chime	94	94	94	94	3	2.5	4	.6
Voltage Range						36-60	20-30	20-30	40-130

### Description:

Wheelock Series PS Telestrobes emit a high intensity flashing light when the telephone rings. Applications Include: Alerting of the hearing impaired, for use in high ambient noise environments, quiet hospital zones, libraries and broadcast studios.

### Features:

#### PS Telestrobes

- Approvals Include: UL Standard 1459 Listed
- ADA compliant
- Designed for single line phones
- Convenient RJ-11C modular plug-in connection
- Long life, low power consumption xenon flash tube
- Easily mounts to interior surfaces
- For indoor use

#### PS-11A-WPW

- Powered by 115 VAC
- Includes a 115 VAC power cord
- Bright 70,000 candlepower flash (15 candela)
- Designed for analog phone lines

#### PS-15A-WPW

- Powered by the telephone analog line ring voltage
- Designed for analog phone lines

#### PS-33A-WPW

- AC or DC powered
- Designed for low voltage connection



**Series PS-15A-WPW  
& PS-33A-WPW**



**Series PS-11A-WPW**

### Specification and Ordering Information

Model Number	Order Code	Description	Input Voltage	REN	Peak Candlepower
PS-11A-WPW	3858	Single Analog Phone Line	40-130 V, 16-68 Hz, 115 VAC	3	70,000
PS-15A-WPW	3413	Single Analog Phone Line	50-130 V, 20-30 Hz	1.5	8,000
PS-33A-WPW	3209	Low Voltage	18-30 VAC or VDC	N/A	25,000

## Description:

Wheelock modular telephone alerts are high quality, compact signaling devices. Easily connects to phone systems. Enables any moderately noisy environment such as computer rooms, general office areas and lunchrooms to have a loud telephone alert. Various models are available to accommodate different voltage requirements.

## Features:

- Connects with standard RJ-11 C phone jack
- Tone and loudness are adjustable
- Helps solve the expensive problem of missed telephone calls
- Indoor use, surface mountable
- Analog, AC & DC models available
- CH-AT1-W and CH-BT1 are UL 1459 listed, FCC part 68 approved and DOC certified\*
- WR-AT1-W is FCC part 68 approved and DOC certified
- Electronic Telchimes; CH-BT1, CH-BT2 and CH-BT4 have volume and tone controls
- Electronic Chimes; CH-AT1-W and CH-AT2-W have volume and tone controls



**Series CH-BT  
Electronic TelChime**



**Series CH-AT Chime  
& WR-AT1-W Warble**

## Specification and Ordering Information

Model Number	Order Code	Signal Type	Recommended Coverage Area	Nominal Input Current or Voltage	Input Current or Voltage Range	dBA @ 1 meter	REN
CH-AT1-W	3198	Chime	Up to 1000 sq. ft.	90 VRMS, 20-30 Hz	50-130 VRMS, 20-30 Hz	80	0.4
CH-AT2-W	3199	Chime	Up to 1000 sq. ft.	.02 Amps	18-30 VAC or VDC	80	N/A
WR-ATI-W	3862	Warble	1000-5000 sq. ft.	90 VRMS, 20-30 Hz	50-130 VRMS, 20-30 Hz	90	0.8
CH-BT1	3823	Chime	1000-5000 sq. ft.	90 VRMS, 20-30 Hz	40-130 VRMS, 20-30 Hz	90	0.4
CH-BT2	4077	Chime	1000-5000 sq. ft.	.02 Amps	18-30 VAC or VDC	90	N/A
CH-BT4	4078	Chime	1000-5000 sq. ft.	.01 Amps	38-60 VDC	90	N/A

CH-ATI-W, WR-ATI-W, and CH-BTI can be used on the Public Telephone Network or behind PBX with interrupted ring voltages from 40-130 V, 20-30 Hz.

\*Department of Communication fro Canadian Telephone.

### Description:

Wheelock Series CA Common Audible Control Units monitor multiple analog telephone lines (tip and ring) to provide all call signaling, zoned signaling or night bell connection. These control units also enable connection for operation of external audible or visual alerts to be operated directly off the telephone ring voltage output.

### Features:

- Approvals Include: UL Listed
- Enables electronic key systems, PBX or 1A2 key systems to have a dry contact closure to trigger other devices
- Choice of two outputs for alert signal connection: standard ringing voltage or contact closure
- Easy connection to Wheelock's dry contact interface (DCI-24-24) or power supply (EPS-2401) for driving 24 volt alert signals

#### CA-312-1 3 CO Line, 1 Control Unit

- Monitors 3 tip and ring lines, 1 zone

#### CA-622-1 6 CO Line, 2 Control Unit

- Monitors 6 tip and ring lines, up to 2 zones
- Additional units can be cascaded to monitor additional input lines



**Series CA-312-1 & CA-622-1**

### Specification and Ordering Information

Model Number	Order Code	Application	Input Voltage	Output	REN
CA-312-1	3780	Monitor up to 3 Tip & Ring Lines, 1 Zone	55-130V, 20-30 Hz	Ringing Voltage or Dry Contact Closure	1
CA-622-1	3779	Monitor Up to 6 Tip & Ring Lines, 2 Zones	55-130V, 20-30 Hz	Ringing Voltage or Dry Contact Closure	1

### Features

- Aluminum bell housing
- Integral RFI suppression
- Screw terminal connections and RJ-11 plug

#### Series TB Modular Bells

- Approvals Include: TB-593 is UL Listed
- Motor Driven
- Tamper resistant volume control
- Applications: Telephone Ringers
- Weatherproof backbox for indoor/outdoor mounting included

### Specification and Ordering Information

Model Number	Order Code	Shell Size	Input Voltage	Input Current	dBa @ 10 Feet
TB-591	4102	6"	38-60 VDC	0.025	100
TB-592	4101	6"	18-30 VAC/DC	0.025/.030	100
TB-593	4103	6"	55-130 V, 20-30 Hz	N/A	95

## Series TB - Telbells



**Series TB Modular Bells**

TB-592 for phone systems with a programmed contact closure, EPS-2401 power supply required.

TB-593: REN: 1.6. For installation in Canada, a 7 ft. modular line cord w/CA-11 connector is required.



## Description:

Wheelock telephone relays activate various appliances when a telephone ring voltage is detected. Three models are available to accommodate different voltage requirements, environments and applications.

## Features:

- Approvals Include: UL Listed, FCC registered

### CRT-T-40 Weatherproof AC/DC Relay

- Includes mounting bracket
- Hard wire connections
- Accepts RJ-11 phone plug
- Designed for analog phone lines

### XRT-T-40 Explosion-Proof AC/DC Relay

- Hard wire connections
- Accepts RJ-11 phone plug
- Designed for analog phone lines

### RX-1419 Telephone Relay

- Designed for analog phone lines or low voltage activations
- Screw terminal connections
- Accepts RJ-11 phone plug
- Includes AC line cord
- Replacement relay for 163 package



**Series CRT-T-40**



**Series XRT-T-40**



**Series RX-1419**

## Specification and Ordering Information

Model Number	Order Code	Application	Input Voltage	AC Contact Ratings	DC Contact Ratings	REN
CRT-T-40	0049	Indoor/Outdoor	39-150 V, 20-30 Hz	Up to 230 VAC	Up to 115 VDC	0.6
XRT-T-40	0221	Explosion Proof	39-150 V, 20-30 Hz	Up to 230 VAC	Up to 115 VDC	0.6
			39-150 V, 20-30 Hz	5A	115 VAC, 60 Hz	-
RX-1419	0040	Indoor	18-48 VDC	2A	115 VAC, 60 Hz	0.6
			30-48 VAC	0.5A	115 VDC	-

**EPS-1205 Economy Power Supply**

- Approvals Include: UL listed
- 12 VDC, 500 mA, filtered, plugs into an AC outlet.
- Includes DC output cord with polarized plug.
- Economically powers AFT-100 AM/FM Tuner.

**EPS-2401 Economy Power Supply**

- Approvals Include: UL listed
- 24 VDC, 100 mA, filtered, plugs into an AC outlet.
- Powers 24 VDC alert signals and tone generators.
- B battery.

**RPS-2406 Fully Regulated and Filtered**

- Approvals Include: UL listed
- 24 VDC, 600 mA, wall mounting with 6 ft. AC power cord.
- Current limited, short circuit and overload protected with auto shutdown and reset.
- Power supply in non-UL fire alarm applications for Series DV-100 & DV-200 Voicelink Systems.
- A battery.

**RPS-2440-A 24 VDC Dual Output**

- Approvals Include: UL listed
- Either two 2 amp, or one 4 amp.
- Fully regulated and filtered.
- Each output with independent power on LED.
- Current limiting overload and short circuit protection.
- Auto shutdown and reset, AC circuit breaker for input protection.
- A battery.

**PSC-2420-R Power Supply/Charger**

- 24 VDC, 1-8 fused outputs.
- 20.8 amp switch mode designed with full regulation and filtering.
- Outputs are current limited, overload and short circuit protected.
- Equipped with a battery charger capable of handling a 60 ampere hour battery load.
- PSC-2420-R, red cabinet; (21" H x 16" W x 6" D, 26 lbs. 6 oz.).

**DCI-24-24 Dry Contact Interface**

- Approvals Include: UL Standard 2017 Listed
- Provides the power to operate a wide variety of Wheelock 24 VDC signaling products while isolating the load from the contact closure.
- Delivers 24 VDC at 300 mA via a dry contact closure.
- Can be wall-mounted, comes with six-foot power cord.
- Quick-connect input/output terminals require no special tools for hookup.
- Can power multiple Wheelock products.
- One DCI-24-24 can activate another DCI-24-24 to power additional products.
- Compatible Products: PS-33A, CH-AT2-W, CH-BT2, TB-592, UTA Series and MT-1 12/24-W



**Series EPS-1205**



**Series EPS-2401**



**Series RPS-2406**



**Series RPS-2440-A**



**Series DCI-24-24**

**Specification and Ordering Information**

Model Number	Order Code	Description	Output Voltage	Output Current	Regulation	Ripple & Noise
EPS-1205	4892	Filtered Power Supply	12 VDC	500mA	Non-Regulated	2.5 VP-P
EPS-2401	3545	Filtered Power Supply	24 VDC	100mA	Non-Regulated	10mVRMS
RPS-2406	3770	Regulated & Filtered Power Supply	24 VDC	600mA	+/- 5%	10mVRMS
RPS-2440-A	4839	Dual Output Regulated & Filtered Power Supply	24 VDC	4 Amps	+/- 5%	10mVRMS
PSC-2420-R	7377	Power Supply/Charger - Red cabinet (120 VAC)	24 VDC	20.8 Amps	+/- 5%	2% max, p-p
PSC-2420E-R	7385	Power Supply/Charger (220 VAC) (E=Export)	24 VDC	20.8Amps	+/- 5%	2% max, p-p
			Input		Output	
DCI-24-24	24 VDC	Dry Contact Interface	Dry Contact Closure		24 VDC (300 mA)	

## Description:

Wheelock's Series MZC-144 is a Modular Zone Control System with 3 zones expandable to 12 zones.

## Features:

- System can provide for one-way communication or talk back
- DTMF tone access with 3 digit dialing
- All call and / or programmed zone paging
- Separate music sources can be inserted into each zone group
- Field programmable for fixed or logical zones
- Music muting by zone
- Tone and paging volume control
- Page alert tone
- Provides talk battery for unused CO line/trunk port and stand-alone telephone applications
- Night ringer with contact closure activation
- Wall mountable
- Operates on 24 VDC, regulated and filtered power supply:  
RPS-2440A, can power up to 72 zones  
RPS-2406, can power up to 12 zones



**Series  
MZC-144**

## Specification and Ordering Information

Model Number	Order Code	Product Description
MZC-144	7550	Programmable Modular Zone Control System, 3 Zones Expandable to 12 Zones. Up to (12) MZC-144's can be stacked to accommodate up to a 144 Zone System
MZEM-3	7552	3 Zone Expansion Modules (Audio)
TBM	7551	Talk-Back Modules
MZC-RM	7555	Relay Module - Provides 3 Relay Contacts
MZC-CAB	7553	Expansion Cable - Interconnects Multiple MZC-144's
MZC-BOOSTER	7556	For use when more than 72 Zones are required - Includes Cable

## Interface/Connection Options:

- Universal interface: Can be connected directly to a telephone for stand alone paging, unused CO line/trunk port or 600 ohm audio page port
- Compatible with PBX's and EKSU's
- Wheelock SAFE<sup>PATH</sup>® Voice Evacuation systems for OSHA related applications

## Expandability/Optional Features:

- Each MZC-144 is expandable to 12 zones (MZEM-3) with 4 music inputs
- Up to 12 fully loaded MZC-144's can be stacked to accommodate a 144-zone system of one-way paging, talk back, or relay control.

Note: When more then 72 zones are required, contact Wheelock Technical support.

- A system booster and connection cable (MZC-Booster) is required and will be supplied.

## Description:

Series ST Speakers & Horns provide clear, audible output for voice paging, background music and tone alerting.

## Features:

- Assortment of 4", 8", flush mount, ceiling mount, weatherproof horns, self-amplified speakers and speakers with volume controls
- ST-C8 and ST-C8V utilize a plastic grill
- ST-C8M and ST-C8MV utilize a metal grill
- ST-C8V and ST-C8MV have a recessed volume control



**ST-C8  
ST-C8V  
ST-C8M  
ST-C8MV**



**ST-B4**

## Specification and Ordering Information

Model Number	Order Code	Product Description	Transformer Taps in Watts	dBA @ 1 Meter	Frequency Response	Mounting
ST-B4	4116	4" Surface mount, 4 watt transformer, plastic housing, ivory	1/8, 1/4, 1/2, 1, 2, 4	93	200 Hz 10 KHz	Surface Mount
ST-C8	4114	8" Surface mount, 6 watt, 5 oz with 4 watt transformer, round plastic grille, white	1/8, 1/4, 1/2, 1, 2, 4	95	80 Hz 14 KHz	Flush Mount
ST-C8M	8474	8" Surface mount, 6 watt, 5 oz with 4 watt transformer, round metal grille, white	1/8, 1/4, 1/2, 1, 2, 4	95	80 Hz 14 KHz	Flush Mount
ST-C8V	4871	8" Surface mount, 6 watt, 5 oz with 4 watt transformer, recessed volume control, round plastic grille, white	1/8, 1/4, 1/2, 1, 2, 4	95	80 Hz 14 KHz	Flush Mount
ST-C8MV	8475	8" Surface mount, 6 watt, 5 oz with 4 watt transformer, recessed volume control, round metal grille, white	1/8, 1/4, 1/2, 1, 2, 4	95	80 Hz 14 KHz	Flush Mount
ST-H15-B	5147	8" D x 10 1/2", weatherproof re-entrant horn, 15 watt transformer, metal, beige	See Chart Below	122	275 Hz 10 KHz	Universal fully adjustable base with banding slots for beams or pillars. Conduit interface adapter with clear plastic shield.
ST-H30	5148	10" D x 10 1/2", weatherproof re-entrant horn, 30 watt transformer, metal, beige	See Chart Below	125	275 Hz 10 KHz	

Sound output measured at 1W @ 2KHz for ST-B4, ST-C8, ST-C8V, ST-C8MV. Full rated power for ST-H15-B and ST-H30

### ST-H30 Wattage Selector Switch Positions

	1	2	3	4	5	6	7
70V	2.0	3.8	7.5	15.0	30.0	-	-
25V	0.3	0.5	0.9	1.9	3.7	6.9	13.9
100V	4.0	7.7	15.0	30.0	-	-	-

### ST-H15-B Wattage Selector Switch Positions

	1	2	3	4	5	6	7
70V	1.0	2.0	3.8	7.5	15.0	-	-
25V	-	-	0.48	0.94	1.9	7.5	15.0
100V	2.0	3.8	7.5	15.0	-	-	-



**ST-H30  
ST-H15B**

## Series SA Self Amplified Paging Horns



**SA-H5B, SA-H15B**

### Specification and Ordering Information

Model Number	Order Code	Description	Power Output @ 1000 Hz/Nominal Current	dBA @ 1 Meter	Frequency Response	Mounting
SA-H5B	5145	8" Dia. X D Weatherproof Re-entrant Horn, Metal, Beige	5 Watts/325 mA	118	275 Hz - 10 KHz	Universal, Fully Adjustable Mounting Base w/ Banding Slots for Beams or Pillars. Conduit Interface Adapter w/ Clear Plastic Shield
SA-H15B	5146	8" Dia. X D Weatherproof Re-entrant Horn, Metal, Beige	15 Watts/1.4 Amps 7.5 Watts/900mA	122	275 Hz - 10 KHz	Universal, Fully Adjustable Mounting Base w/ Banding Slots for Beams or Pillars. Conduit Interface Adapter w/ Clear Plastic Shield

SA Series speakers have barriered, clamp type screw terminals, impedance: 600 Ohms/operating voltage: 18-28 VDC  
Sound output (dBA @ 1 meter) measured at rated power output at 100 Hz.

## Series VC Wall Mount Volume Controls

### Description:

Wheelock's VC-10 and VC-35 attenuators are ideal for controlling the volume of a single speaker or a group of speakers on a 25V or 70V line.

### Features:

- Auto-transformer design for best efficiency
- Stainless steel wall plate
- Rotary switch that attenuates in 3dB steps to a completely off position

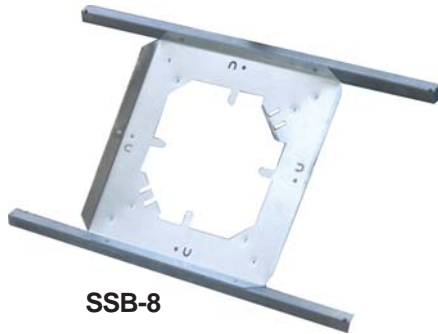


**VC-35**

### Specification and Ordering Information

Model Number	Order Code	Power Handling	Frequency Response	Insertion Loss	Wall Plate
VC-10	5159	10 Watts	Better than 17 KHz	Less than .5dB	Single Gang
VC-35	5160	35 Watts	Better than 17 KHz	Less than .5dB	Double Gang

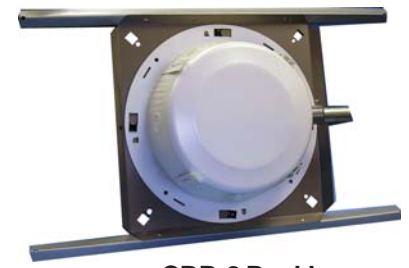
## Speaker Mounting Accessories



**SSB-8**



**SSB-4**



**CBB-8 Backbox  
attached to SSB-8  
Tile Bridge**

### Specification and Ordering Information

Model Number	Order Code	Description	Used With
CBB-8*	3314	UL Listed 8" Ceiling Speaker Backbox	ST-C8, ST-C8V, ST-C8M, ST-C8VM, S8-70/25, S8-24MCC, S8-24MCCH
SSB-8	3573	8" Speaker Support Tile Bridge	ST-C8, ST-C8V, ST-C8M, ST-C8VM, S8-70/25, S8-24MCC, S8-24MCCH
SSB-4	3380	4" Speaker Support Tile Bridge	Series E & ET

\*Required for use with S8-70/25, S8-24MCC, & S8-24MCCH

### Features:

- Boosts the audio signal from 600 ohm CO and audio page ports to a level capable of driving a maximum of 150 self-amplified speakers (Contact Technical Support for wiring)
- Will compensate for audio signal loss on long cable run
- Can function as a one-way paging CO port interface
- Contains a volume control
- When used with Wheelock power supply (RPS-2406) talk battery is supplied to the CO port
- Operating Voltage/Current: 24 VDC/25mA
- In/Out Impedance: 600 ohms/4 ohms
- Input level: -15dBm to + 10dB
- Max audio output level: 0.8 VRMS

### Specification and Ordering Information

Model Number	Order Code	Description
PRM-150	3793	Line Level Pre-Amplifier Interface 1-Way Page to a CO Port

## PRM-150 Line Level Pre-Amplifier



**PRM-150**



## Description:

Wheelock MIC-400 features durability, value and performance, making it ideal for commercial PA applications.

## Features:

- Smooth natural voice reproduction
- Extended frequency response
- Dynamic, low impedance
- Unidirectional pickup pattern



**MIC-400**

## Specification and Ordering Information

Model Number	Order Code	Description	Cable & Connector	Frequency Response	Impedance	Sensitivity (+/- 3dB)
MIC-400	5166	Hand held CB type Push-to-Talk (PTT) Switch	5' Male Phone Plug	250-6 KHz	-74 dB	3.8"H x 2.5"W x 1.5"D



## CCSWH Central Control Station

### Description:

The Central Control Station (CCSWH) is designed to meet the requirements of military and industrial facilities for reliable Outdoor and Indoor Emergency Notification. The Central Control Station consists of a Central Control Unit that interfaces with a computer PC station running Wheelock Wireless Software.

The Wheelock Wireless Software Package displays control and status activities, stores information and displays system operations. Interfaced with the Central Control Unit, the software processes and displays the FSK data received and transmitted.

### Features:

- Operates all Wheelock Outdoor and Indoor Emergency Notification Equipment
- Configurable alarm activations. The alarm configuration includes the alarm tone type, tone duration, pre-recorded messages (optional) and number of cycles the alarm is to be played
- Archives and prints reports for all system activities
- Automatic or manual operation reports
- Supervises communication between the Central Control Unit, Software and all remotely located equipment
- VHF or UHF or trunked radio operation
- CCSWH-PORTLT can be powered by a standard 120 VAC or 13.5 VDC vehicle source



### Standard Equipment:

The CCSWH includes Wheelock's Central Control Unit, Wheelock Wireless Software Package, Windows Operating System, computer, keyboard, monitor, printer, mouse, cables, and multi-outlet strip.

### Specification and Ordering Information

Model Number	Order Code	Description
CCSWH	9950	Central Control Station Includes: (1) desk top receiver cabinet, system controller hardware & basic system software, alarm screen touchpad/display, hand held (PTT) microphone, (1) 25 watt UHF or VHF radio, antenna polyphasor, power cord, 12 VDC/7AH battery, Pentium II 350 MHz computer, 17" color monitor, 32X CD ROM, Mouse, Windows 98 or NT, (1) Dot Matrix Printer, RS-232 Serial Port, Cables & Multi-outlet power strip.
CCSWHTS	9951	Same as above, but substitute a Touch Screen Monitor and Software
CCSWH-PORTLT	9952	Mobile Central Control Station Includes: (1) Panasonic Toughbook 48 laptop computer, system controller hardware & basic software, alarm screen touchpad/display, handheld (PTT) microphone, (1) 25 watt UHF or VHF radio, magnetic mount vehicle antenna. The CCSWH-PORT central control station comes with a handle for easy transportation.



## CCSWH-PORTLT Portable Central Control Station

### Description:

The Portable Central Control Station (CCSWH-PORTLT) is designed to meet the requirements of the military and industrial facilities for reliable mobile command and for emergency notification.

### Features:

- Panasonic Toughbook 48 Lap Top Computer
- Computer Complies with Mil Spec: 8-10S
- Operates on 120 VAC or 13.5 VDC
- System controller hardware & basic software
- Alarm screen touch pad/display
- Handheld (PTT) microphone
- 25 watt UHF or VHF radio
- Magnetic Mount Vehicle Antenna
- Includes Handle for Easy Transportation From Vehicle to Vehicle



### Specification and Ordering Information

Model Number	Order Code	Description
CCSWH-PORTLT	9952	Mobile Central Control Station Includes: (1) Panasonic Toughbook 48 laptop computer, system controller hardware & basic software, alarm screen touchpad/display, handheld (PTT) microphone, (1) 25 watt UHF or VHF radio, magnetic mount vehicle antenna. The CCSWH-PORT central control station comes with a handle for easy transportation.



## Wheelock Wireless Remote Controller (RCIWH)

### Features:

The Remote Controller Interface Unit (RCIWH) is a fully supervised wireless alarm monitoring station and two-way communications controller installed at independent field-located SAFEPATH® Evacuation System Panels. The RCIWH communicates with the Wireless Central Control Station (CCSWH) via radio frequency data transfer, using highly secure Frequency Shift Keying (FSK) signaling technology. Each RCIWH is identified as an independent addressable control point. Remote alarm activation signals, low battery signals, and system trouble conditions to the CCSWH(s) initiated by the SAFEPATH® Evacuation System are transmitted via the RCIWH. The RCIWH's internal self-diagnostic "watch dog" circuitry also monitors tamper, system power conditions and data communication integrity.

The RCIWH interfaces with each independent SAFEPATH® to "stream" selectable voice commands, digital messaging and system control data directly from the CCSWH(s) over either conventional licensed radio frequencies (UHF, VHF, 800MHz and 900MHz ranges) or trunked RF communications systems. Superior internal surge suppression meets IEEE 587 and ANSI C37.90 standards for both the mother board and the antenna system. Each RCIWH is housed in a standard NEMA1 rated painted steel enclosure, or in an optional NEMA4 or stainless steel enclosure for severe weather resistance applications.



**RCIWH**

### Features:

- Single Board Remote Controller Design
- Integral Radio for Communications with CCSWH
- Omni-Directional Antenna System
- 24VDC or 120V AC options
- Eight (8) Standard System Alarm Inputs
- One (1) Standard System Trouble Input
- Eight (8) Standard System Outputs
- Expandable Alarm Initiation Points

### Specification and Ordering Information

Model Number	Order Code	Description	Weight (lbs.)
RCIWH	9954	Remote Controller Interface standard configuration includes: (1) cabinet, (1) 25Watt UHF or VHF radio, Antenna w/20' of Coaxial Cable. Antenna surge suppressor, (1) 12VDC, 7 AH Battery, (1) cabinet tamper switch, (8) relay outputs, (8) inputs, a serial data port, (1) FSK Communications Modem & (1) system trouble circuit.	20
RCI4WH	9955	Same as above but with a Weather Resistant Enclosure	50
RCI4XWH	9956	Same as RCIWH but with a Stainless Steel Enclosure	60



## Series HPSS High Power Speaker Stations

### Description:

The Series HPSS High Power Speaker Stations provide reliable directional alarm tone notification and emergency voice instructions for industrial and facilities.

HPSS8WH	800 watt speaker system, two 400 watt speakers
HPSS12WH	1200 watt speaker system, three 400 watt speakers
HPSS16WH	1600 watt speaker system, four 400 watt speakers
HPSS24WH	2400 watt speaker system, six 400 watt speakers
HPSS32WH	3200 watt speaker system, eight 400 watt speakers

**Speaker Assembly:** Includes mounting bracket, 50 feet of speaker and speaker pole mount kit.

**Control Enclosure:** Includes NEMA4 stainless steel enclosure with ventilated battery compartment and mounting hardware. Siren control contains a microprocessor controller, conventional VHF or UHF radio, antenna with 20' of coaxial cable, antenna surge suppressor, local control push button alarms, tone generator, automatic gain control for live PA, intrusion sensor, Class-D amplifiers, amplifier tray and battery charger. Battery compartment contains battery power switch, intrusion sensor, ventilation louvers, battery fuse and battery cables.

### Features:

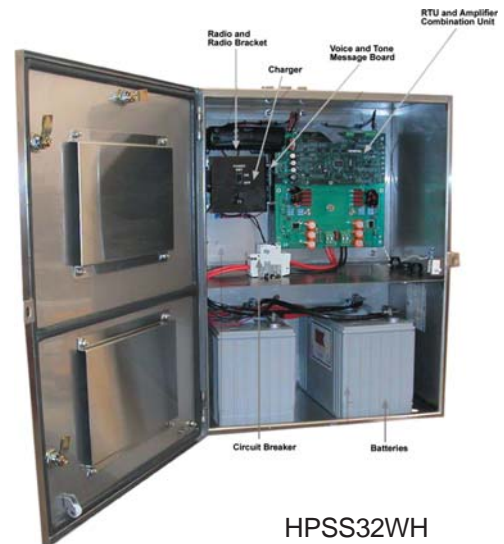
- Omni sound pattern of 121-127 dBC measured at 100 ft. (Depending on model)
- Directional sound pattern can be configured for 90, 180, 270 or 360 degrees
- Speaker head direction provides intelligible sound due to minimization of sound reflection
- Automatic gain control for live voice

### Specification and Ordering Information

Model Number	Order Code	Description	Weight (lbs)
HPSS8WH	9960	High Power Speaker Station equipped with (1) 800 Watt Speaker Head Assembly, NEMA-4 stainless steel Control Cabinet & Cabinet Mounting Bracket. The Control Cabinet contains: (1) wireless Controller, (1) UHF or VHF Radio, Antenna with 20' of Coaxial Cable, Antenna Surge Suppressor, (1) Push Button for local Activation, tone generator, automatic gain control for live Microphone operation, tamper switch, amplification tray, digital messaging module for up to 10 messages, battery charger, Battery Compartment which contains a battery power switch, intrusion sensor, ventilation louvers, fuse set & cables. The unit operates on either 120 or 240 VAC.	70
HPSS12WH	9962	Same as the HPSS8WH except the power is 1,200 Watts	250
HPSS16WH	9964	Same as the HPSS8WH except the power is 1,600 Watts	300
HPSS24WH	9966	Same as the HPSS8WH except the power is 2,400 Watts	400
HPSS32WH	9968	Same as the HPSS8WH except the power is 3,200 Watts	500
DMRTWH	9973	Digital Message Recording Time per Message	N/A
ENGWHxx	99xx	Engineering charge (varies per institution)	
BAT-250M	9959	12 VDC 50 AH Marine Battery	



HPSS32WH  
Speaker Assembly



HPSS32WH  
Control & Battery  
Cabinet

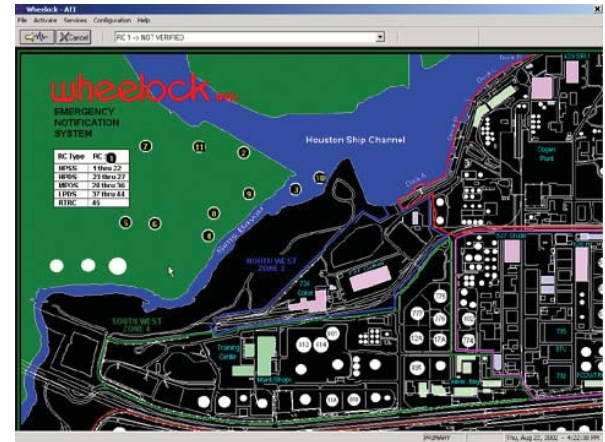




# CUSTWH Wireless Emergency Warning System Software & Engineering Design

## Description:

The windows-based Wireless Emergency Warning System Software acts as an interactive operator control system. The Graphical User Interface (GUI) and a system programming tool can be installed at one or more host computer systems at the Wireless Central Control Station(s) (CCSWH). The software provides the user with several programmable tiers of operator security and password protection, while identifying and managing remote alarm points and trouble conditions via wireless Remote Controller Interface Units (RCIWH) which integrate with the SAFEPATH® Evacuation Systems. Using a standard mouse or an optional touch screen interface, the operator can perform various automatic test, verification and control functions, including selectable system activation (individually by RCIWH, by predefined groups of RCIWH's, or via system-wide All Call), selectable public addressing override functions and custom digital messaging functions at the Wireless Central Control Station(s). The software also provides standard configurable performance parameters, system status reporting, system trouble indications, pull down operator menus and easy to understand help files for simplicity of operation.



## Features:

- Comprehensive Acoustic Analysis and Modeling
- Customized software engineering
- Turn key integration and locally authorized services
- Trunking radios for communication with 800 MHz and 900MHz systems
- Customized digitalized messaging
- Start-up assistance, training and documentation
- Lease-to-own purchasing options

## Specification and Ordering Information

Model Number	Order Code	Description
CUSTWH	9978	<b>System Software Customization</b> The Engineering, Software Customization, System Start-up & Training Fees are an initial charge which must be included as a separate line item on every system. This fee covers initial system software engineering costs to customize the user software to every sites's specific needs. Initial start-up costs include the services of a qualified project engineer onsite with the installation entity to assist in putting the system on line & one full day of user training on the system. System documentation will include user manuals, a system software manual & executable software disks. <i>Note: Software changes not included in the initial specification will be negotiated on a case-by-case basis. System start-up assistance and 1 day of user training. Additional time for start-up assistance or training will be negotiated on a case-by-case basis.</i>
		ENGWHxx 99xx Engineering Charge for remote controllers (varies per application)
		ASUTAWH 9988 Dault Charge for additional Start-up, Training assistance or Field Non-Warranty Service. Actual expenses are additional.
		HECWH 9989 Hourly Engineering Charge



## Series EWR, EWP & EN4 Audible Strobe & Strobe Appliance Enclosures

### Description:

Wheelock's Series EWR, EWP and EN4 Enclosures are designed for use with Wheelock's UL approved Audible Strobe and Strobe Appliances.

### Features:

- Vandal Resistant
- Easy installation and access for service
- Provides protection from incidental contact with equipment, falling dirt, falling liquids, light splashes, rain, etc.
- UV stabilized against discoloration



**Series EN4**



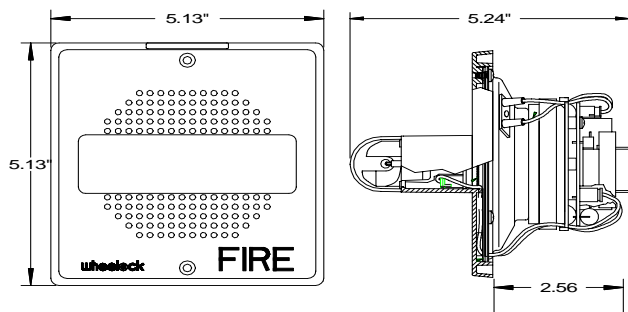
**Series EWR**

### Specification and Ordering Information

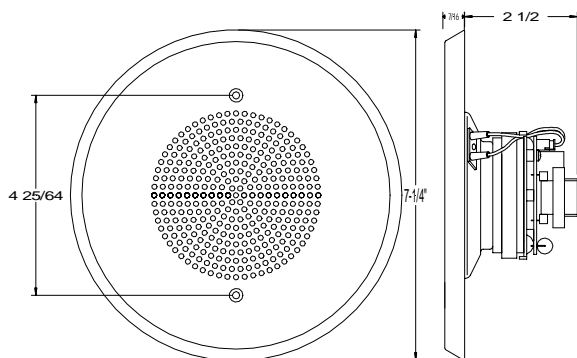
Model Number	Order Code	Description
Series EWR	8151	Slotted, Weather-Resistant Enclosure with Drain Screen
Series EWP	8150	Weather-Proof Enclosure with Drain Screen
Series EN4	8152	NEMA-4 Rated Enclosure

# Product Dimensions

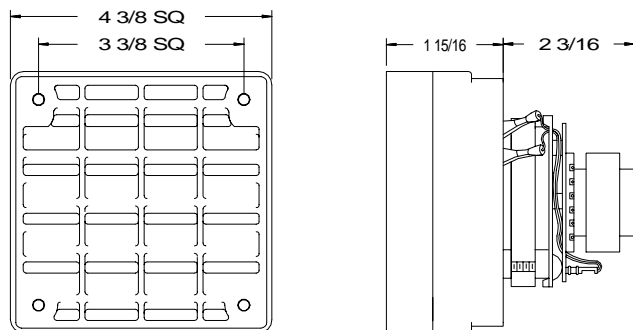
## SERIES E70, ET70, CH70



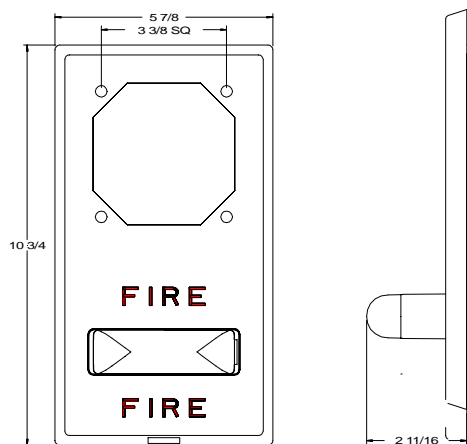
## SERIES ET90, E90, CH90



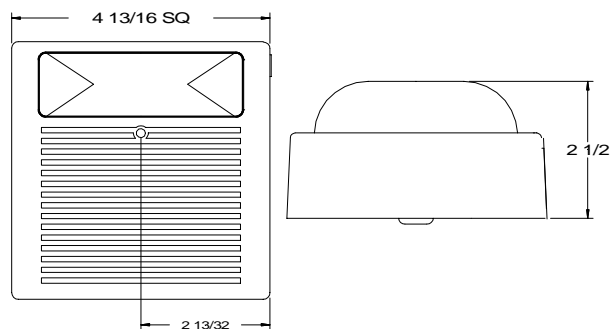
## SERIES ET1010



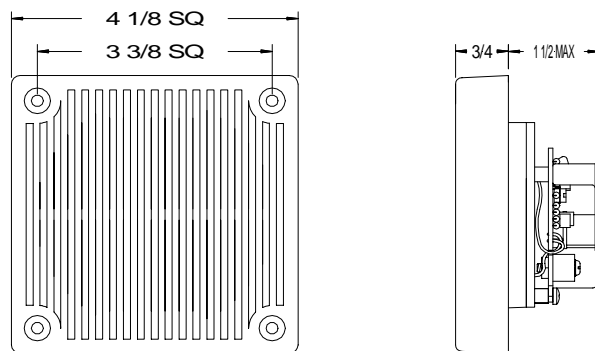
## SERIES RSSP



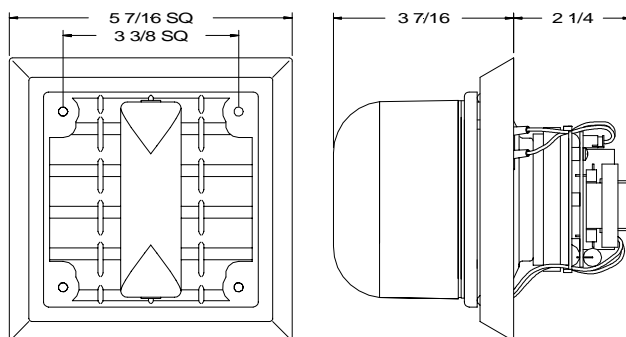
## SERIES AS, ASWP



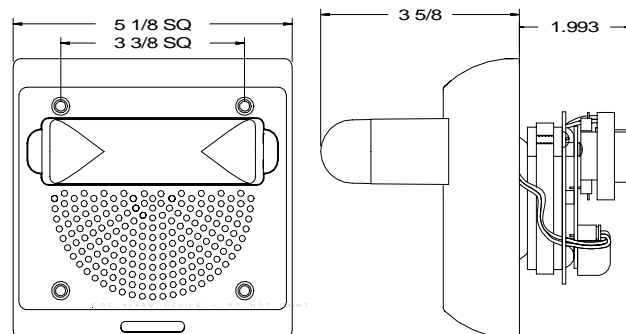
## SERIES AHWP



## SERIES ET1080



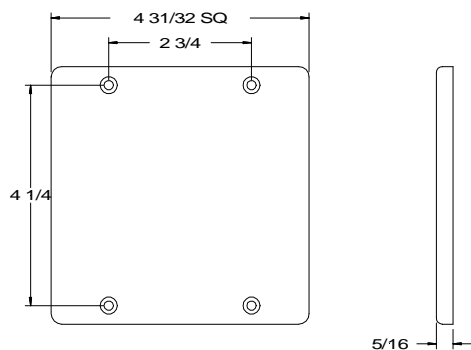
## SERIES ET70WP



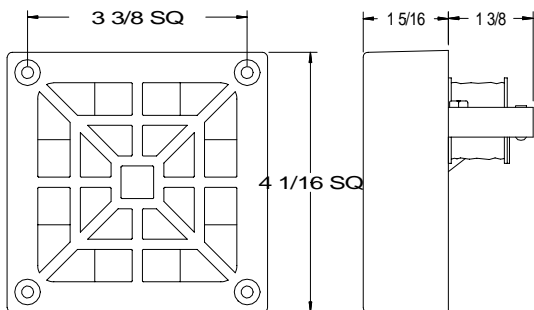
02/05

# Product Dimensions

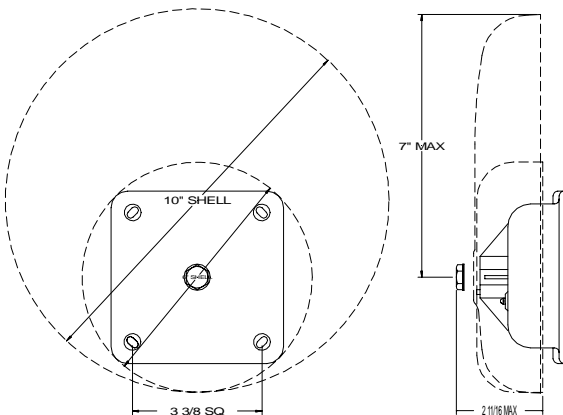
## SERIES SM/DSM



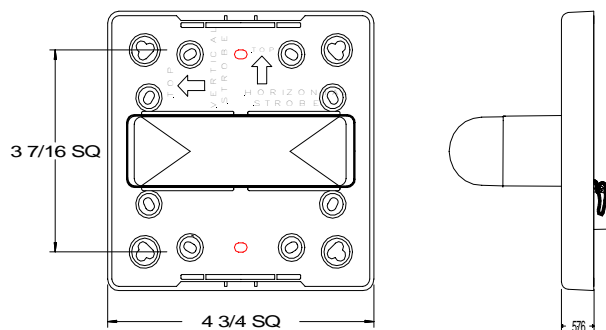
## SERIES 31T



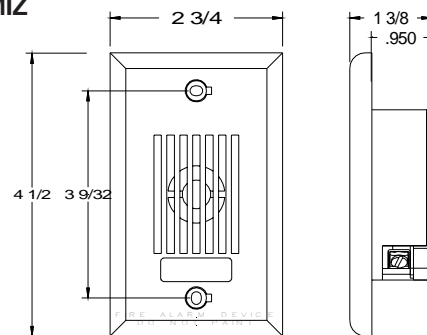
## SERIES MB & 43T BELLS



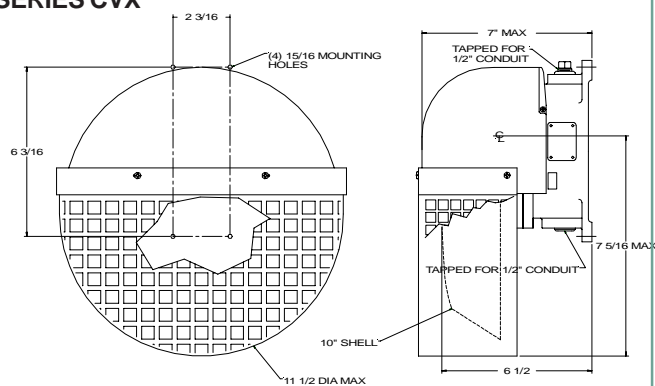
## SERIES RSS



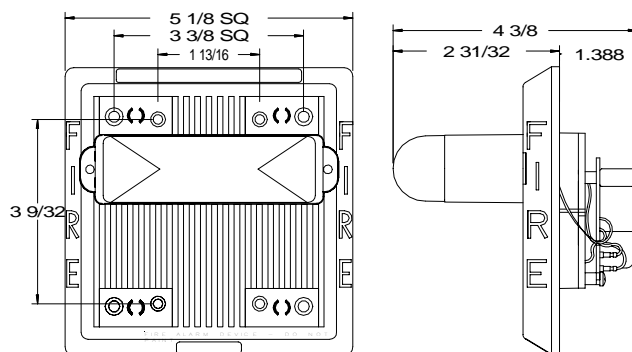
## SERIES MIZ



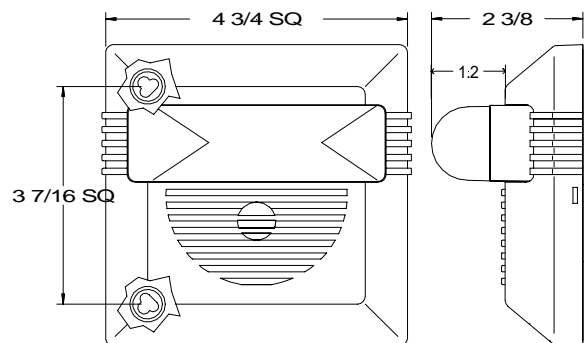
## SERIES CVX



## SERIES AMT, HS4, MT



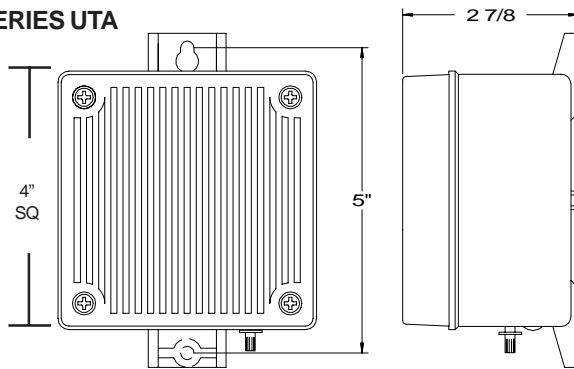
## SERIES NS, NH



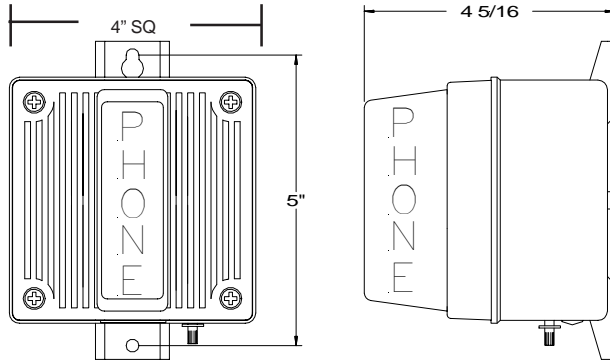
06/05

## Product Dimensions

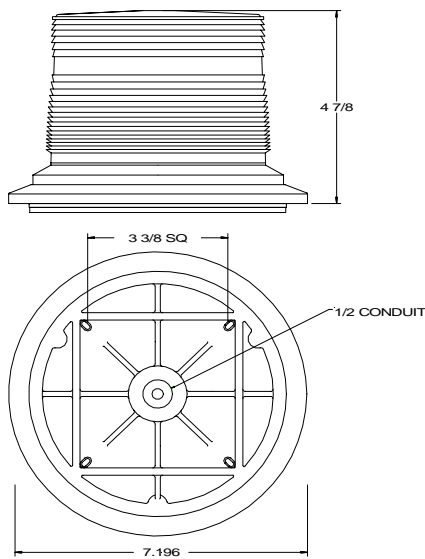
**SERIES UTA**



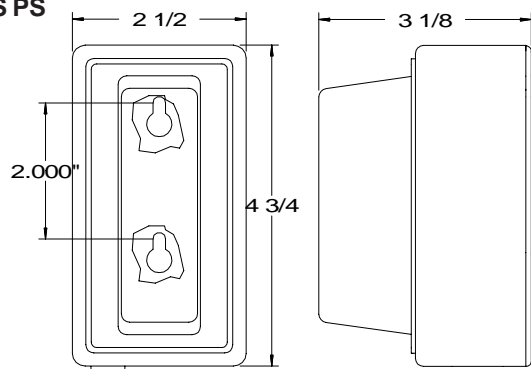
**SERIES UTA w/ Strobe**



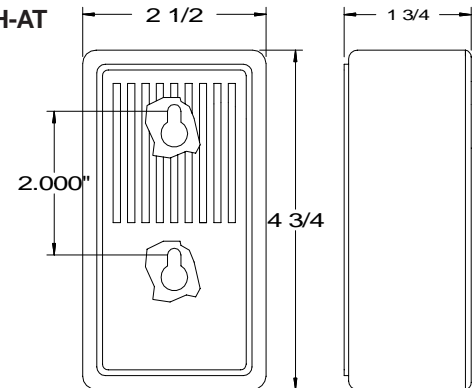
**SERIES MAX**



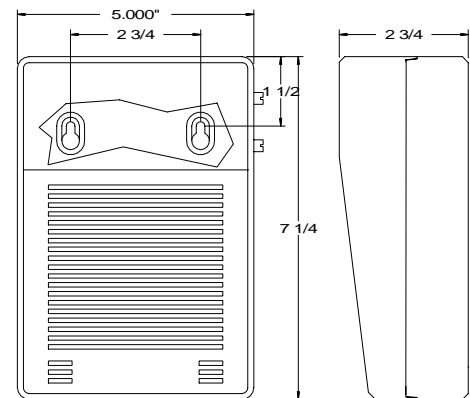
**SERIES PS**



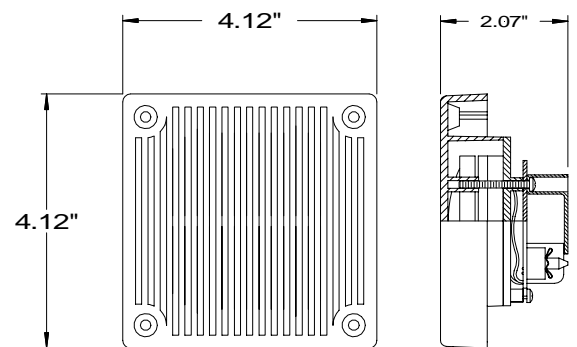
**SERIES CH-AT**



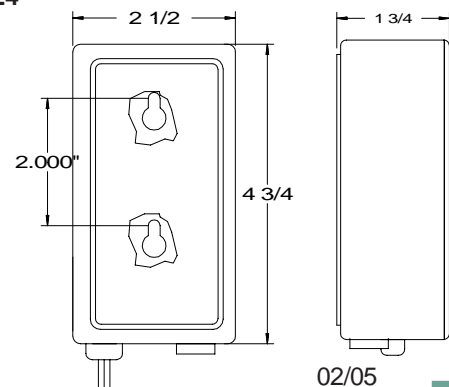
**SERIES CH-BT**



**SERIES MT4**



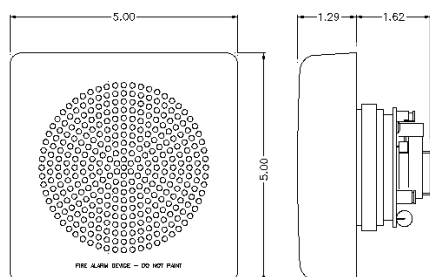
**SERIES DCI-24**



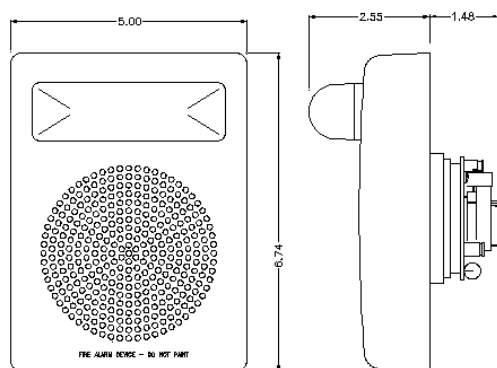
02/05

## Product Dimensions

### SERIES E50 SPEAKER



### SERIES E50 SPEAKER STROBE



### Description:

Replacement covers and grilles can be used to easily change the color of appliances before or after installation. Unique nickel plated grilles are available for speakers and chimes.

### Specification and Ordering Information

Description	Order Code	Used On	Color	Lettering
ECHG50-R	0135	E50	Red	-
ECHG50-W	0136	E50	White	-
ECHGS50-FR	0137	E50 w/Strobe	Red	FIRE
ECHGS50-FW	0138	E50 w/Strobe	White	FIRE
ECHG70-N	3221	E70, ET70, CH70	Nickel Plate	-
ECHG70-R	9058	E70, ET70, CH70	Red	-
ECHG70-W	9059	E70, ET70, CH70	White	-
ECHSG70-FN	3224	E70, ET70, CH70 w/Strobe	Nickel Plate	FIRE
ECHSG70W-FR	90600	E70, ET70, CH70 w/Strobe	Red	FIRE
ECHSG70W-FW	9061	E70, ET70, CH70 w/Strobe	White	FIRE
ECHG90-N	3222	E90, ET90, CH90	Nickel Plate	-
ECHG90-R	9062	E90, ET90, CH90	Red	-
ECHG90-W	9063	E90, ET90, CH90	White	-
ECHSG90-N	3223	E90, ET90, CH90 w/Strobe	Nickel Plate	-
ECHSG90-R	9064	E90, ET90, CH90 w/Strobe	Red	-
ECHSG90-W	9065	E90, ET90, CH90 w/Strobe	White	-
NSP-R	9054	NS	Red	-
NSPW-FR	9055	NS	Red	FIRE
NSP-W	9056	NS	White	-
NSPW-FW	9057	NS	White	FIRE
RSSCP-R	9050	RSS	Red	-
RSSCPW-FR	9051	RSS	Red	FIRE
RSSCP-W	9052	RSS	White	-
RSSCPW-FW	9053	RSS	White	FIRE



## Agency Approvals

Agency Approvals																	
Model	UL	MEA	CSFM	FM	BFP	Model	UL	MEA	CSFM	FM	BFP	Model	UL	MEA	CSFM	FM	BFP
31T-115R	X	X	X	X	X	E90-24MCC-FW	X	X	X	X	*	MT-241575W-FR	X	X	X	X	*
31T-115-R-ULC/CSA	X	X	X	X	X	E90-24MCCH-FN	X	X	X	X	*	MT-24MCW-FR	X	*	X	*	*
43T-G6-24-R	X	X	X	X	X	E90-24MCCH-FW	X	X	X	X	*	MT-24MCW-FW	X	*	X	*	*
43T-G6-115-R	X	X	X	X	X	E90-N	X	X	X	X	X	MT4-115-R	X	X	X	X	X
43T-G10-24-R	X	X	X	X	X	E90-W	X	X	X	X	X	MT4-115-WH-VFR	X	X	X	X	X
43T-G10-115-R	X	X	X	X	X	ET-1010-R	X	X	X	X	X	MTWP-2475W-FR	X	X	X	X	*
AH-12-R	X	X	X	X	X	ET-1010-W	X	X	X	X	X	MT4-115-R	X	X	X	X	X
AH-12WP-R	X	X	X	X	X	ET-1080-R	X	X	X	X	X	MT4-115-WH-VFR	X	X	X	X	X
AH-24-R	X	X	X	X	X	ET80-241575W-FR	X	*	X		*	MTWP-2475W-FR	X	X	X	X	*
AH-24WP-R	X	X	X	X	X	ET80-241575W-FW	X	*	X		*	NH-12/24-R	X	X	X	X	X
AMT-12/24-R	X	X	X	X	X	ET80-24MCW-FR	X	*	X		*	NS-121575W-FR	X	X	X	X	X
AMT-12/24-R-NYC	X	X	X	X	X	ET80-24MCW-FW	X	*	X		*	NS-241575W-FR	X	X	X	X	X
AMT-241575W-FR	X	X	X	X	*	ET80-24MCWH-FR	X	*	X		*	NS-24MCW-FR	X	X	X	X	X
AMT-241575W-FW	X	X	X	X	*	ET80-24MCWH-FW	X	*	X		*	NS-24MCW-FW	X	X	X	X	X
AMT-241575W-FR-NYC	X	X	X	X	*	ET70-241575W-FN	X	X	X	X	X	PS-12/24-8CP	X	X	X	*	*
AMT-24MCW-FR	X	*	X	*	*	ET70-241575W-FR	X	X	X	X	X	PS-12/24-8MP	X	X	X	X	X
AMT-24MCW-FW	X	*	X	*	*	ET70-24MCW-FN	X	X	X	X	X	RSS-121575W-FR	X	X	X	X	X
AS-241575W-FR	X	X	X	X	X	ET70-24MCW-FR	X	X	X	X	X	RSS-241575W-FR	X	X	X	X	X
AS-121575W-FR	X	X		X		ET70-24MCW-FW	X	X	X	X	X	RSS-24MCC-FW	X	X	X	X	*
AS-24MCC-FR	X	X	X	*	*	ET70WP-2475W-FR	X	X	X	*	*	RSS-24MCCH-FW	X	X	X	*	*
AS-24MCC-FW	X	X	X	*	*	ET70-24MCWH-FN	X	X	X	X	*	RSS-24MCCHR-FW	X	X	X	*	*
AS-24MCCH-FW	X	X	X	*	*	ET70-24MCWH-FR	X	X	X	X	*	RSS-24MCCR-FW	X	X	X	*	*
AS-24MCW-FR	X	X	X	X	X	ET70-24MCWH-FW	X	X	X	X	*	RSS-24MCW-FR	X	X	X	X	X
AS-24MCW-FW	X	X	X	X	X	ET70-N	X	X	X	X	X	RSS-24MCWH-FR	X	X	X	*	*
AS-24MCWH-FR	X	X	X	*	*	ET70-R	X	X	X	X	X	RSSP-121575W-FR	X	X	X	X	X
AS-24MCWH-FW	X	X	X	*	*	ET80-241575W-FR	X	*	X	*	*	RSSP-241585W-FR	X	X	X	X	X
ASWP-2475W-FR	X	X	X	X	X	ET80-241575W-FW	X	*	X	*	*	RSSP-24MCW-FR	X	X	X	X	X
CH70-241575-FR	X	X	X	X	X	ET80-24MCW-FR	X	*	X	*	*	RSSP-24MCWH-FR	X	X	X	*	*
CH70-24MCW-FR	X	X	X	X	X	ET80-24MCW-FW	X	*	X	*	*	RSSWP-2475W-FR	X	X	X	X	*
CH70-24MCW-FW	X	X	X	X	X	ET80-24MCWH-FR	X	*	X	*	*	SM-12/24-R	X	X	X	X	X
CH70-24MCWH-FR	X	X	X	*	*	ET80-24MCWH-FW	X	*	X	*	*	X = Agency Approved * = Pending					
CH70-24MCWH-FW	X	X	X	*	*	ET90-24MCC-FN	X	X	X	X	*						
CH70-24-R	X	X	X	X	X	ET90-24MCC-FW	X	X	X	X	*						
CH90-24MCC-FW	X	X	X	*	*	ET90-24MCCH-FN	X	X	X	X	*						
CH90-24MCCH-FW	X	X	X	*	*	ET90-24MCCH-FW	X	X	X	X	*						
CH90-24-W	X	X	X	X	X	ET90-N	X	X	X	X	X						
CSX10-115-R	X	X	X	X	X	ET90-W	X	X	X	X	X						
CSX10-24-R	X	X	X	X	X	HS-24-R	X	X	X	X	*						
CVX10-115-R	X	X	X	X	X	HS-24-W	X	X	X	X	*						
E50-R	X	*	*	X	*	HS4-241575W-FR	X	X	X	X	*						
E50-W	X	*	*	X	*	HS4-241575W-FW	X	X	X	X	*						
E50-241575W-FR	X	*	*	X	*	HS4-24MCW-FR	X	X	X	X	*						
E50-241575W-FW	X	*	*	X	*	HS4-24MCW-FW	X	X	X	X	*						
E50-24MCW-FR	X	*	*	X	*	HS4-24MCWH-FR	X	X	X	*	*						
E50-24MCW-FW	X	*	*	X	*	HS4-24MCWH-FW	X	X	X	*	*						
E50-24MCWH-FR	X	*	*	X	*	MB-G6-12-R	X	X	X	X	X						
E50-24MCWH-FW	X	*	*	X	*	MB-G6-24-R	X	X	X	X	X						
E70-241575W-FR	X	X	X	X	X	MB-G10-12-R	X	X	X	X	X						
E70-241575W-FN	X	X	X	X	X	MB-G10-24-R	X	X	X	X	X						
E70-24MCW-FN	X	X	X	X	X	MIZ-24S-R	X	X	X	X	*						
E70-24MCW-FR	X	X	X	X	X	MIZ-24S-W	X	X	X	X	*						
E70-24MCW-FW	X	X	X	X	X	MT-12/24	X	X	X	X	X						
E70-24MCWH-FN	X	X	X	X	*	MT-121575W-FR	X	X	X	X	*						
E70-24MCWH-FR	X	X	X	X	*												
E70-24MCWH-FW	X	X	X	X	*												
E70-N	X	X	X	X	X												
E70-R	X	X	X	X	X												
E90-24MCC-FN	X	X	X	X	*												


## GENERAL AND TECHNICAL NOTES


### Warnings

NOTE: ALL CAUTIONS AND WARNINGS are identified by the symbol . All warnings are printed in bold capital letters.

## General & Technical Notes


### Specification Notes

 **WARNING: THESE APPLIANCES WERE TESTED TO THE LISTED OPERATING VOLTAGE LIMITS USING FILTERED (DC) OR UNFILTERED (DC) OR FULL-WAVE-RECTIFIED (FWR). DO NOT APPLY 80% AND 110% OF THESE VOLTAGE VALUES FOR SYSTEMS OPERATION. THE APPLICATION OF IMPROPER VOLTAGE MAY RESULT IN DEGRADED OPERATION OR DAMAGE TO THESE PRODUCTS.**

 **WARNING: MAKE SURE THAT ALL FUSES USED ON NAC CIRCUITS ARE RATED TO HANDLE THE MAXIMUM INRUSH OR PEAK CURRENT FOR ALL APPLIANCES ON THOSE CIRCUITS. FAILURE TO DO THIS MAY RESULT IN LOSS OF POWER TO THE NAC CIRCUIT AND THE FAILURE OF ALL APPLIANCES ON THAT CIRCUIT TO OPERATE, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.**


The UL Listed "Regulated Voltage Range" is 16-33 VDC or 8-17.5 VDC using either filtered (DC) or unfiltered full-wave rectified (FWR) voltage unless otherwise noted in this catalog. Check the minimum and maximum output of the power supply and standby battery and subtract the voltage drop from the circuit wiring resistance to determine the applied voltage to the strobes.

All candela ratings represent minimum effective strobe intensity based on UL 1971.

 **WARNING: USE STROBES ONLY ON CIRCUITS WITH CONTINUOUSLY APPLIED OPERATING VOLTAGE. DO NOT USE STROBES ON CODED OR INTERRUPTED CIRCUITS IN WHICH THE APPLIED VOLTAGE IS CYCLED ON AND OFF, AS THE STROBE MAY NOT FLASH.**

Wheelock products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance, and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupation Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws, and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).


1. All VFWR voltages in strobe current requirement table are measured with DC volt meter. Multiply VFWR voltage by 1.11 to convert to VRMS.
2. Use the highest value of rated average current to determine the maximum number of strobes and to establish power supplies and wire gauge requirements. Use the rated peak current or rated inrush current (whichever is higher) to verify fuse requirements.
3. Make sure that the average, peak and inrush currents do not exceed system power supplies or fusing limits. See "Installation Instructions".
4. The 15/75 cd wall mounted strobes are listed at 15 cd under UL Standard 1971 and meet 75 cd intensity on axis for ADA Guidelines.
5. Read Installation Instructions for the Software Installation and operation of Electronic Access Control Products.

 **WARNING: CONTACT WHEELOCK FOR THE MOST CURRENT "SPECIFICATION SHEETS", "INSTALLATION INSTRUCTIONS" AND "GENERAL INFORMATION" SHEETS ON THESE PRODUCTS. THESE DOCUMENTS UNDERGO PERIODIC CHANGES. IT IS IMPORTANT THAT YOU HAVE CURRENT INFORMATION ON THESE PRODUCTS. THESE MATERIALS CONTAIN IMPORTANT INFORMATION THAT SHOULD BE READ PRIOR TO SPECIFYING OR INSTALLING THESE PRODUCTS INCLUDING:**


- TOTAL CURRENT REQUIRED BY ALL APPLIANCES CONNECTED TO SYSTEM PRIMARY AND SECONDARY POWER SOURCES.
- FUSE RATINGS ON NAC CIRCUITS TO HANDLE MAXIMUM INRUSH OR PEAK CURRENT FROM ALL APPLIANCES ON THOSE CIRCUITS.
- COMPOSITE FLASH RATE FROM MULTIPLE STROBES WITHIN A PERSON'S FIELD OF VIEW.
- INSTALLATION OF 110 CANDELA STROBE PRODUCTS IN SLEEPING AREAS.
- INSTALLATION IN OFFICE AREAS AND OTHER SPECIFICATION AND INSTALLATION ISSUES.
- LIMITED WARRANTY CONDITIONS.

 **WARNING: FAILURE TO COMPLY WITH ANY INSTRUCTIONS, CAUTIONS, AND WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.**

### Mounting Notes

 **Caution:** The mounting option figures show the maximum number of field wires (conductors) that can enter the backbox used with each mounting option. If these limits are exceeded, there may be insufficient space in the backbox to accommodate the field wires and stresses from the wires could damage the product.

Although the limits shown for each mounting option comply with the NFPA 70, National Electrical Code (NEC), Wheelock recommends use of the largest backbox option and the use of approved stranded field wires, whenever possible, to provide additional wiring room for easy installation and minimum stress on the product from wiring.

 **Caution:** Check that the installed product will have sufficient clearance and wiring room prior to installing backboxes and conduit, especially if sheathed multiconductor cable or ¾" conduit fittings are used.

1. Mounting hardware for each mounting option is supplied.
2. Conduit entrances to the backbox should be selected to provide sufficient wiring clearance for the installed product. When extension rings are required, conduit should enter through the backbox, not the extension ring. Use Steel City #53151 (1-½" deep) or #53171 (2-½" deep) extension rings (as noted in the mounting options) or equal with the same cut-out area.
3. When terminating field wires, do not use more lead length than required. Excess lead length could result in insufficient wiring space for the notification appliance.
4. Use care and proper techniques to position the field wires in the backbox so that they use minimum space and produce minimum stress on the product. This is especially important for stiff, heavy gauge wires and wires with thick insulation or sheathing.
5. Do not pass additional wires (used for other than the notification appliance) through the backbox. Such additional wires could result in insufficient wiring space for the notification appliance.

**ANY MATERIAL EXTRAPOLATED FROM THIS DOCUMENT OR FROM WHEELOCK MANUALS OR OTHER DOCUMENTS DESCRIBING THE PRODUCT FOR USE IN PROMOTIONAL OR ADVERTISING CLAIMS, OR FOR ANY OTHER USE, INCLUDING DESCRIPTION OF THE PRODUCT'S APPLICATION, OPERATION, INSTALLATION AND TESTING IS USED AT THE SOLE RISK OF THE USER AND WHEELOCK WILL NOT HAVE ANY LIABILITY FOR SUCH USE.**

Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Wheelock, Inc. standard terms and conditions.

08/04

Products	Description	Installation Instruction Sheet	Spec. Sheet	CSFMs
<b>Fire Notification Products</b>				
Series AMT-12/24	Multitone - 3 inputs	<a href="#">P82623</a>	<a href="#">S4000</a>	<a href="#">CSFM</a>
Series AMT-241575, AMT-24MCW	Multitone Strobe - 1575cd or 15,30,75,110 cd, wall	<a href="#">P84158</a>	<a href="#">S4000</a>	<a href="#">CSFM</a>
Series AMT-241575	Multitone Strobe (NYC) - 1575 cd, wall	<a href="#">P84157</a>	<a href="#">S4100</a>	
Series AS-121575, AS-241575	Audible Strobe - 1575 cd, wall	<a href="#">P84240</a>	<a href="#">S8100</a>	<a href="#">CSFM</a>
Series AS-24MCW	Audible Strobe - 15,30,75,110 cd, wall	<a href="#">P83947</a>	<a href="#">S8100</a>	<a href="#">CSFM</a>
Series AS-24MCC	Audible Strobe - 15,30,75,95 cd, ceiling	<a href="#">P84395</a>	<a href="#">S8100</a>	<a href="#">CSFM</a>
Series AS-24MCWH	Audible Strobe - 135,185 cd, wall	<a href="#">P84449</a>	<a href="#">S8100</a>	<a href="#">CSFM</a>
Series AS-24MCCH	Audible Strobe - 115,177 cd, ceiling	<a href="#">P84448</a>	<a href="#">S8100</a>	<a href="#">CSFM</a>
Series AH-12, AH-24	Audible	<a href="#">P83519</a>	<a href="#">S8100</a>	<a href="#">CSFM</a>
Series ASWP	Audible Strobe - 180 cd, weatherproof	<a href="#">P83957</a>	<a href="#">S9004</a>	<a href="#">CSFM</a>
Series AHWP	Audible - outdoor	<a href="#">P83641</a>	<a href="#">S9004</a>	<a href="#">CSFM</a>
Series CVX, CSX	Bell - explosion-proof, 10-inch, indoor or outdoor	<a href="#">P81612</a>	<a href="#">S0200</a>	<a href="#">CSFM</a>
Series CH70, CH90	Chime	<a href="#">P83720</a>	<a href="#">S0710</a>	<a href="#">CSFM</a>
Series CH70-241575	Chime - 1575 cd, wall	<a href="#">P83599</a>	<a href="#">S0710</a>	<a href="#">CSFM</a>
Series CH70-24MCW	Chime - 15,30,75,110 cd, wall	<a href="#">P83932</a>	<a href="#">S0710</a>	<a href="#">CSFM</a>
Series CH90-24MCC	Chime - 15,30,75,95 cd, ceiling	<a href="#">P84399</a>	<a href="#">S0710</a>	<a href="#">CSFM</a>
Series CH70-MCWH	Chime - 135,185 cd, wall	<a href="#">P84467</a>	<a href="#">S0710</a>	<a href="#">CSFM</a>
Series CH90-MCCH	Chime - 115,177 cd, ceiling	<a href="#">P84468</a>	<a href="#">S0710</a>	<a href="#">CSFM</a>
Series DSM	Sync module - dual circuit	<a href="#">P83177</a>	<a href="#">S3000</a>	<a href="#">CSFM</a>
Series E50	Speaker	<a href="#">P84590</a>	<a href="#">S0510</a>	<a href="#">CSFM</a>
Series E50-241575W	Speaker Strobe-wall	<a href="#">P84589</a>	<a href="#">S0510</a>	<a href="#">CSFM</a>
Series E50-MCW	Speaker Strobe - 15,30,75,110 cd, wall	<a href="#">P84579</a>	<a href="#">S0510</a>	<a href="#">CSFM</a>
Series E50-MCWH	Speaker Strobe - 135,185 cd, wall	<a href="#">P84579</a>	<a href="#">S0510</a>	<a href="#">CSFM</a>
Series E70A, E70B, E90A, E90B	Speaker Strobe - amber or blue lens	<a href="#">P84566</a>	<a href="#">S9020</a>	
Series E70, E90	Speaker - wall or ceiling	<a href="#">P83566</a>	<a href="#">S1610</a>	<a href="#">CSFM</a>
Series E70-241575	Speaker Strobe - 1575 cd, wall	<a href="#">P83566</a>	<a href="#">S1610</a>	<a href="#">CSFM</a>
Series E70-24MCW	Speaker Strobe - 15,30,75,110 cd, wall	<a href="#">P83934</a>	<a href="#">S1610</a>	<a href="#">CSFM</a>
Series E90-24MCC	Speaker Strobe - 15,30,75,95 cd, ceiling	<a href="#">P84398</a>	<a href="#">S1610</a>	<a href="#">CSFM</a>
Series E70-24MCWH	Speaker Strobe - 135,185 cd, wall	<a href="#">P84451</a>	<a href="#">S1610</a>	<a href="#">CSFM</a>
Series E90-24MCCH	Speaker Strobe - 115,177 cd, ceiling	<a href="#">P84452</a>	<a href="#">S1610</a>	<a href="#">CSFM</a>
Series ET70, ET90	Speaker - wall or ceiling	<a href="#">P83567</a>	<a href="#">S0310</a>	<a href="#">CSFM</a>
Series ET70-241575	Speaker Strobe - 1575 cd, wall	<a href="#">P83567</a>	<a href="#">S0310</a>	<a href="#">CSFM</a>
Series ET70-24MCW	Speaker Strobe - 15,30,75,110 cd, wall	<a href="#">P83933</a>	<a href="#">S0310</a>	<a href="#">CSFM</a>
Series ET90-24MCC	Speaker Strobe - 15,30,75,95 cd, ceiling	<a href="#">P84396</a>	<a href="#">S0310</a>	<a href="#">CSFM</a>
Series ET70-24MCWH	Speaker Strobe - 135,185 cd, wall	<a href="#">P84453</a>	<a href="#">S0310</a>	<a href="#">CSFM</a>
Series ET90-24MCCH	Speaker Strobe - 115,177 cd, ceiling	<a href="#">P84454</a>	<a href="#">S0310</a>	<a href="#">CSFM</a>
Series ET-1080	Speaker - vandal resist, wall	<a href="#">P83575 na</a>	<a href="#">S0800</a>	<a href="#">CSFM</a>
Series ET80-24MCW	Speaker Strobe - vandal resist, 15,30,75,110 cd, wall	<a href="#">P82506</a>	<a href="#">S0800</a>	<a href="#">CSFM</a>
Series ET80-24MCWH	Speaker Strobe - vandal resist, 135,185 cd, wall	<a href="#">P84507</a>	<a href="#">S0800</a>	<a href="#">CSFM</a>
Series ET70WP	Speaker Strobe - weatherproof	<a href="#">P84149</a>	<a href="#">S9006</a>	<a href="#">CSFM</a>
Series EWR	Enclosure - for audibel strobes, speaker strobes	<a href="#">P83880</a>	<a href="#">S9002</a>	
Series EWP	Enclosure - for strobes	<a href="#">P83879</a>	<a href="#">S9002</a>	
Series EN4	Enclosure - NEMA 4 for strobes	<a href="#">P83937</a>	<a href="#">S9002</a>	
Series HS	Audible	<a href="#">P84432</a>	<a href="#">S2400</a>	<a href="#">CSFM</a>
Series HS4-241575	Audible Strobe - 1575 cd, wall	<a href="#">P84403</a>	<a href="#">S2400</a>	<a href="#">CSFM</a>
Series HS4-24MCW	Audible Strobe - 15,30,75,110 cd, wall	<a href="#">P84391</a>	<a href="#">S2400</a>	<a href="#">CSFM</a>
Series HS4-24MCWH	Audible Strobe - 135,185 cd, wall	<a href="#">P84469</a>	<a href="#">S2400</a>	<a href="#">CSFM</a>
Series MB	Bell - 6 or 10-inch, 12 or 24 vdc	<a href="#">P81960</a>	<a href="#">S1500</a>	<a href="#">CSFM</a>
Series MIZ-24S	Mini Horn - continuous, code-3, sync	<a href="#">P84408</a>	<a href="#">S1700</a>	<a href="#">CSFM</a>
Series MPS-100	Pull Station - single action	<a href="#">MPS-100</a>	<a href="#">S5008</a>	<a href="#">CSFM</a>
Series MPS-200	Pull Station - double action	<a href="#">MPS-200</a>	<a href="#">S5008</a>	<a href="#">CSFM</a>
Series MPS-400X	Pull Station - explosion-proof, single action	<a href="#">MPS-400X</a>	<a href="#">S5008</a>	<a href="#">CSFM</a>

Series MT	Multitone	<a href="#">P82467</a>	<a href="#">S2000</a>	<a href="#">CSFM</a>
Series MT-121575, MT-241575, MT-24MCW	Multitone Strobe - 1575 cd or 15,30,75,110 cd, wall	<a href="#">P84155</a>	<a href="#">S2000</a>	<a href="#">CSFM</a>
Series MT4-115	Multitone - 115 vac	<a href="#">P83159</a>	<a href="#">S2000</a>	<a href="#">CSFM</a>
Series MT4-115-WH	Multitone Strobe - 115 vac	<a href="#">P83160</a>	<a href="#">S2000</a>	<a href="#">CSFM</a>
Series MTWP	Multitone Strobe - weatherproof	<a href="#">P84150</a>	<a href="#">S9004</a>	<a href="#">CSFM</a>
Series NH	Audible	<a href="#">P83600</a>	<a href="#">S2100</a>	<a href="#">CSFM</a>
Series NS-24MCW	Audible Strobe - 15,30,75,110 cd, wall	<a href="#">P83983</a>	<a href="#">S2100</a>	<a href="#">CSFM</a>
Series NS-121575, NS-241575	Audible Strobe - 1575 cd, wall	<a href="#">P84234</a>	<a href="#">S2100</a>	<a href="#">CSFM</a>
Series PS-12/24-8CP	Power Supply - NAC, 8-amps, 200 ma aux	<a href="#">P84515</a>	<a href="#">S9000</a>	<a href="#">CSFM</a>
Series PS-12/24-8MP	Power Supply - NAC, 8-amps, 3.5 amp aux	<a href="#">P84333</a>	<a href="#">S9000</a>	<a href="#">CSFM</a>
Series RSS-241575, RSSP-241575	Strobe - 1575 cd, wall	<a href="#">P84233</a>	<a href="#">S0410</a>	<a href="#">CSFM</a>
Series RSS-24MCW, RSSP-24MCW	Strobe - 15,30,75,110 cd, wall	<a href="#">P83911</a>	<a href="#">S0410</a>	<a href="#">CSFM</a>
Series RSS-24MCC, RSS-24MCCR	Strobe - 15,30,75,95 cd, ceiling, round or square	<a href="#">P84394</a>	<a href="#">S0410</a>	<a href="#">CSFM</a>
Series RSS-24MCWH, RSSP-24MCWH	Strobe - 135,185 cd, wall	<a href="#">P84450</a>	<a href="#">S0410</a>	<a href="#">CSFM</a>
Series RSS-24MCCH, RSS-24MCCHR	Strobe - 115,177 cd, ceiling, round or square	<a href="#">P84442</a>	<a href="#">S0410</a>	<a href="#">CSFM</a>
Series RSSA, RSSB, RSSG	Strobe - amber or blue or green lens	<a href="#">P84517</a>	<a href="#">S9020</a>	
Series RSSWP	Strobe - outdoor	<a href="#">P84135</a>	<a href="#">S9004</a>	<a href="#">CSFM</a>
Series RSSR	Strobe - red lens	<a href="#">P83884</a>	<a href="#">S9008</a>	
Series S8, S8-24MCC, S8-24MCCH	Speaker or Speaker Strobe - 8-inch, ceiling	<a href="#">P84478</a>	<a href="#">S1100</a>	<a href="#">CSFM</a>
Series SA-S70, SA-S90	Speaker - amplified, wall or ceiling	<a href="#">P84502</a>	<a href="#">S1800</a>	
Series SA-S90-24MCC	Speaker Strobe - amplified, 15,30,75,95 cd, ceiling	<a href="#">P84503</a>	<a href="#">S1800</a>	
Series SA-S90-24MCW	Speaker Strobe - amplified, 15,30,75,115 cd, wall	<a href="#">P84501</a>	<a href="#">S1800</a>	
Series SM	Sync module - single circuit	<a href="#">P83123</a>	<a href="#">S3000</a>	<a href="#">CSFM</a>
Series STH-15S	Speaker - compression horn, 15 w	<a href="#">P82697</a>	<a href="#">S0100</a>	<a href="#">CSFM</a>
Series 43T	Bell - 6 or 10-inch, 24 or 115 vac	<a href="#">P10352</a>	<a href="#">S0600</a>	<a href="#">CSFM</a>
Series 31T	Horn - 115 vac	<a href="#">P10010</a>	<a href="#">S0500</a>	<a href="#">CSFM</a>
<a href="#">Mounting Accessories and Heights</a>	Accessory Drawings, Matrix, Mounting Heights		<a href="#">S7000</a>	
<a href="#">Product Dimensions</a>	Product Drawings			
<b>Facility Communications</b>		<b>Inst Inst Sheet</b>	<b>Spec. Sheet</b>	<b>CSFM's</b>
<b>Facility Communications Systems</b>				
Series DCSP-4RP, DCSP-8RP, DCSP15SP	Dual Circuit <b>SAFE</b> PATH™	<a href="#">P83569</a>	<a href="#">V2000</a>	<a href="#">CSFM</a>
Series SAPE-1AR, SAPE-2AR	Multi-Circuit <b>SAFE</b> PATH™	<a href="#">P83331</a>	<a href="#">V2000</a>	<a href="#">CSFM</a>
Series RSAPE-1AR	Remote Multi-Circuit <b>SAFE</b> PATH™	<a href="#">P83665</a>	<a href="#">V2000</a>	<a href="#">CSFM</a>
Series RMS-1R	Remote Microphone (Multi-Circuit)	<a href="#">P83450</a>	<a href="#">V2000</a>	
Series RMS-3R	Remote Microphone (Dual Circuit)	<a href="#">P83542</a>	<a href="#">V2000</a>	
Series SD-RMS-1RMB	Remote Microphone (Four Circuit)	<a href="#">P83819</a>	<a href="#">V2000</a>	
Series AIM-3	Auxiliary Input Module	<a href="#">P83667</a>	<a href="#">Catalog</a>	
Series NACIM	Notification Appliance Circuit Interface Module	<a href="#">P83487</a>	<a href="#">V2000</a>	
Series SPL	Speaker Splitter - Multi Circuit <b>SAFE</b> PATH™	<a href="#">P83541</a>	<a href="#">V2000</a>	
Series SP40/2	Audio System - <b>SAFE</b> PATH 4™	<a href="#">P84116</a>	<a href="#">V2003</a>	<a href="#">CSFM</a>
Series SP4-APS	Addressable Paging Splitter & Telephone Controller	<a href="#">P84577</a>	<a href="#">V2003</a>	
Series SPB-320	320-Watt Supervised Audio Power Booster	<a href="#">P84244</a>	<a href="#">V2003</a>	
Series SPB-160	160-Watt Supervised Audio Power Booster	<a href="#">P84296</a>	<a href="#">V2003</a>	<a href="#">CSFM</a>
Series SPB-80/4	80-Watt Supervised Audio Power Booster	<a href="#">P84296</a>	<a href="#">V2003</a>	<a href="#">CSFM</a>
Series SP4Z-A/B	Audio splitter - 4-Zone Class B or 2-Zone Class A	<a href="#">P84205</a>	<a href="#">V2003</a>	<a href="#">CSFM</a>
Series SPRM	Remote Microphone	<a href="#">P84207</a>	<a href="#">V2003</a>	<a href="#">CSFM</a>
Series SP4-3MEM-SMK, SP4-3MEM-PMK	3 Message Expander Module	<a href="#">P84482</a>	<a href="#">V2003</a>	

<b>Personnel Alerting</b>				
Series PAS	Personnel Alert System		<a href="#">Catalog</a>	
Series RAAS	Restricted Area Alert System		<a href="#">Catalog</a>	
Series DRAAS	Deployable Restricted Area Alert System		<a href="#">S9010</a>	
Series NPS	Push Stations	<a href="#">P84249</a>	<a href="#">V2004</a>	
Series SD-RMS-1RMB	Rack Mount Remote Microphone Station	<a href="#">P83819</a>	<a href="#">V2006</a>	
<b>Wireless</b>				
Series CCSWH	Central Control Station		<a href="#">WW8000</a>	
Series CCSWH-PORTLT	Portable Central Control Station		<a href="#">WW8000P</a>	
Series CCUWH	Central Control Unit		<a href="#">WW8001</a>	
Series RCIWH	Wheelock Wireless Remote Controller		<a href="#">WW8002</a>	
Series HPSS, MPSS	Speaker Stations - High & Medium power		<a href="#">WW8003</a>	
Series CUSTWH	System Software - Wireless Emergency Warning		<a href="#">WW8804</a>	
<b>Commercial Audio/Voice Systems</b>		<b>Inst Inst Sheet</b>	<b>Spec. Sheet</b>	<b>CSFMs</b>
<b>VOICELINK Multi-Message Systems</b>				
Series DV-100	Voicelink - 4 Channel Playback System	<a href="#">P82339</a>	<a href="#">V1000</a>	<a href="#">CSFM</a>
Series DV-200	Voicelink - 4 Channel Record/Playback System	<a href="#">P82632</a>	<a href="#">V1000</a>	<a href="#">CSFM</a>
Series MDV-2	Voicelink - 2 Channel Playback system	<a href="#">P83452</a>	<a href="#">V1000</a>	<a href="#">CSFM</a>
Series DV-EM	Voicelink - Expansion Module	<a href="#">P82356</a>	<a href="#">V1000</a>	
<a href="#">VOICELINK Programmed Message Kit</a>		Order Form		
<b>Zone Controller and Modules</b>				
Series MZC-144	Programmable Modular Zone Control System	<a href="#">P83259</a>	<a href="#">T3600</a>	
Series MZC-RM	MZC Relay Module	<a href="#">P83477</a>	<a href="#">T3600</a>	
Series MZEM-3	Three Zone Expansion Module For Audio	<a href="#">P83272</a>	<a href="#">T3600</a>	
Series TBM	Talk-Back Module	<a href="#">P83271</a>	<a href="#">T3600</a>	
Series MZC	MZC Booster	<a href="#">P84034</a>	<a href="#">T3600</a>	
<b>Input/Output Equipment</b>				
Series AFT-100	AM/FM Tuner	<a href="#">P82214</a>	<a href="#">Catalog</a>	
Series PRM-150	Line Level Pre-Amplifier	<a href="#">P81537</a>	<a href="#">Catalog</a>	
Series SA-H5	Self-Amplified Paging Horn - 5 watts	<a href="#">P82580</a>	<a href="#">Catalog</a>	
Series SA-H15	Self-Amplified Paging Horn - 15 watts	<a href="#">P82580</a>	<a href="#">Catalog</a>	
Series ST-C8, ST-B4	Paging Speakers - flush or surface, 25/70 vrms	<a href="#">P81832</a>	<a href="#">Catalog</a>	
Series ST-H15, ST-H30	Paging Horn Speaker	<a href="#">P82595</a>	<a href="#">Catalog</a>	
Series STH-15S	Supervised Horn Loudspeaker	<a href="#">P82697</a>	<a href="#">S0100</a>	<a href="#">CSFM</a>
Series STH w/opt strobe	Cluster Speakers - with optional DC-MAX strobe	<a href="#">P83699</a>	<a href="#">S9003</a>	
Series STH -4M30WC	Cluster Speaker - with strobe, weatherproof	<a href="#">P84196</a>	<a href="#">S9005</a>	
Series STH-MCCH	Cluster Speakers - with 115/177 cd strobe	<a href="#">P84327</a>	<a href="#">S9009</a>	
<b>Accessories</b>				
Series PSC-2420	Power Supply - 24 vdc, 20.8A, 8 outputs	<a href="#">P83572</a>	<a href="#">Catalog</a>	<a href="#">CSFM</a>
Series RPS-2406	Power Supply - 24 vdc, 600 ma	<a href="#">P81634</a>	<a href="#">Catalog</a>	
Series SSB-4	Speaker Support Bridge - 4" speakers	<a href="#">P82288</a>	<a href="#">Catalog</a>	
Series SSB-8	Speaker Support Bridge - 8" speakers	<a href="#">P81490</a>	<a href="#">Catalog</a>	
<b>Telephone Products</b>		<b>Inst Inst Sheet</b>	<b>Spec. Sheet</b>	
Series CA-312-1	Common Audible Control Units - 3 CO Line	<a href="#">P81535</a>	<a href="#">Catalog</a>	
Series CA-622-1	Common Audible Control Units - 6 CO Line	<a href="#">P81534</a>	<a href="#">Catalog</a>	
Series CH-AT1-W	Electronic Chime - Ring Voltage	<a href="#">P81087</a>	<a href="#">Catalog</a>	
Series CH-AT2/CH-BT2/CH-BT4	Electronic Chimes - Indoor, AC or DC	<a href="#">P81132</a>	<a href="#">Catalog</a>	
Series CH-BT1	Electronic Chime - Ring Voltage	<a href="#">P81610</a>	<a href="#">Catalog</a>	

Series CRT-T-40 / XRT-T-40	Telephone Relays - Weatherproof or Explosion-proof	<a href="#">P81030</a>	<a href="#">Catalog</a>	
Series RX-1419	Telephone Relay - Indoor	<a href="#">P81363</a>	<a href="#">Catalog</a>	
Series DCI-24-24	Power Supply - Dry Contact Interface	<a href="#">P81234</a>	<a href="#">Catalog</a>	
Series MTH-24	Multi-Tone Horn - Hi dBA, with Power Supply	<a href="#">P81543</a>	<a href="#">Catalog</a>	
Series PS-11A-WPW	TelStrobe - Indoor, 115VAC	<a href="#">P80945</a>	<a href="#">Catalog</a>	
Series PS-15A-WPW	Telstrobe - Indoor, Ring Voltage	<a href="#">P81280</a>	<a href="#">Catalog</a>	
Series PS-33A-WPW	TelStrobe - Indoor, AC or DC	<a href="#">P81186</a>	<a href="#">Catalog</a>	
Series TB-591/592	Modular TelBell - AC or DC	<a href="#">P81897</a>	<a href="#">Catalog</a>	
Series TB-593	Modular TelBell - Ring Voltage	<a href="#">P81898</a>	<a href="#">Catalog</a>	
Series UTA-1	Universal Telephone Alert	<a href="#">P82968</a>	<a href="#">Catalog</a>	
Series UTA-WH-VPS	Universal Telephone Alert with Strobe	<a href="#">P82969</a>	<a href="#">Catalog</a>	
<b>Industrial Products</b>		<b>Inst Inst Sheet</b>	<b>Spec. Sheet</b>	
Series 31T-115	Horn - 115 vac	<a href="#">P10010</a>	<a href="#">Catalog</a>	
Series 43T	Bell - 6 or 10-inch, 24 or 115 vac	<a href="#">P10352</a>	<a href="#">Catalog</a>	
Series AMT	Multitone - 12/24 vdc, 3 inputs	<a href="#">P82623</a>	<a href="#">Catalog</a>	
Series AMT w/strobe	Multitone Strobe - 24 vdc, 1575 cd, wall	<a href="#">P84158</a>	<a href="#">Catalog</a>	
Series CVX/CSX	Bell - explosion-proof, 10-inch, indoor or outdoor	<a href="#">P81612</a>	<a href="#">Catalog</a>	
Series AC-MAX, DC-MAX	Strobe - ac or dc, indoor/outdoor, 5 lens colors	<a href="#">P83857</a>	<a href="#">Catalog</a>	
Series MB	Bell - 6 or 10-inch, 12 or 24 vdc	<a href="#">P81960</a>	<a href="#">Catalog</a>	
Series MT	Multitone - 12/24 vdc or 115 vac	<a href="#">P824671</a>	<a href="#">Catalog</a>	
Series MT w/strobe	Multitone Strobe - 12 vdc or 24 vdc or 115 vac	<a href="#">P824677</a>	<a href="#">Catalog</a>	
Series SA-H5-B	Amplified Paging Horn Speaker - 5 watts	<a href="#">P82580</a>	<a href="#">Catalog</a>	

\*To contact Technical Support call (800) 631-2148. Press #3.

For additional information and to print Adobe PDF files of Instruction Sheets and Data Sheets, visit our website at [www.wheelockinc.com](http://www.wheelockinc.com).